



## STANDARD DIODES SELECTOR GUIDE

TYPE	IF (AV) at Tc		IFSM (2) 1 pulse	Izt (2) for fusing	Junction temperature range (°C)	VRRM max Tj = Tj max (V)	IRRM typical Tj = Tj max (mA)	Vo Tj = Tj max (V)	rt (mΩ)	Chip size (mm)	storage temp. (°C)	RthJC (3) (°C/W)	Typical reverse recovery time @ Tj=25°C			PACKAGE INFORMATION				
	(A)	(°C)											current code	(kA)	(kA2s)	(°C)	(V)	(mA)	(mΩ)	(mm)
R510/R511-10	100	130	10	2,3@8,3ms	22 @8,3ms	- 65 to 200	1200	30	0.80	1.99	16	- 65 to 200	0.28	314	25	7	14 Nm	3/8"-24 Stud (1)(4)(6)	R51	-
R510/R511-15	150	110	15	3@8,3ms	37,5@8,3ms	- 65 to 200	1200	30	0.85	1.08	16	- 65 to 200	0.28	314	25	7	14 Nm	3/8"-24 Stud (1)(4)(6)	R51	-
R500/R501-10	100	160	10	2,3@8,3ms	22 @8,3ms	- 65 to 200	1600	30	0.8	1.99	16	- 65 to 200	0.28	314	25	7	14 Nm	3/8"-24 Stud (1)(4)	R50	-
R500/R501-15	150	145	15	3@8,3ms	37,5@8,3ms	- 65 to 200	1600	30	0.85	1.08	16	- 65 to 200	0.28	314	25	7	14 Nm	3/8"-24 Stud (1)(4)	R50	-
R500/R501-14 +	140	125	14	2,5@10ms	32,2@10ms	- 65 to 190	1400	25	0.95	1	16	- 65 to 200	0.30	314	25	6	14 Nm	3/8"-24 Stud (1)(4)	R50	-
R500/R501-17 +	170	125	17	3@10ms	45@10ms	- 65 to 190	1400	25	0.85	0.64	16	- 65 to 200	0.30	314	25	6	14 Nm	3/8"-24 Stud (1)(4)	R50	-
R600/R601-20	200	140	20	5,5@8,3ms	125@8,3ms	- 65 to 150	2600	50	0.84	0.94	23	- 65 to 190	0.13	785	25	9	41 Nm	3/4"-16 Stud(1)	R60	-
R600/R601-25	250	130	25	6@8,3ms	150@8,3ms	- 65 to 150	2600	50	0.88	0.72	23	- 65 to 190	0.13	785	25	11	41 Nm	3/4"-16 Stud(1)	R60	-
R600/R601-30	300	120	30	6,5@8,3ms	175@8,3ms	- 65 to 150	2600	50	0.92	0.53	23	- 65 to 190	0.13	785	25	13	41 Nm	3/4"-16 Stud(1)	R60	-
R600/R601-23 +	230	100	23	5@10ms	125@10ms	- 55 to 150	3000	50	0.84	0.94	23	- 55 to 200	0.13	785	25	13	41 Nm	3/4"-16 Stud(1)	R60	-
R600/R601-30 +	300	110	30	5,5@10ms	151@10ms	- 55 to 175	2200	50	0.82	0.82	23	- 55 to 200	0.13	785	25	11	41 Nm	3/4"-16 Stud(1)	R60	-
R600/R601-33 +	330	125	33	6,5@10ms	211@10ms	- 55 to 190	1200	50	0.80	0.63	23	- 55 to 200	0.13	785	25	9	41 Nm	3/4"-16 Stud(1)	R60	-
R620-30	300	140	30	5,5@8,3ms	125@8,3ms	- 65 to 150	2400	50	0.92	0.88	23	- 65 to 190	0.095	785	25	11	4,5 to 6,3 kN	Press pak	R62	20/42/13,6
R620-40	400	130	40	6@8,3ms	150@8,3ms	- 65 to 150	2400	50	0.89	0.74	23	- 65 to 190	0.095	785	25	11	4,5 to 6,3 kN	Press pak	R62	20/42/13,6
R620-50	500	115	50	6,5@8,3ms	175@8,3ms	- 65 to 150	2400	50	0.85	0.63	23	- 65 to 190	0.095	785	25	11	4,5 to 6,3 kN	Press pak	R62	20/42/13,6
A390-	400	117	-	7@8,3ms	204@8,3ms	- 40 to 200	1600	25	1,40V 144°C 400A	-	23	- 40 to 200	0.095	-	-	-	3,2 to 4 kN	Press pak	R62	20/42/13,6
R620-35 +	345	100	35	5@10ms	125@10ms	- 55 to 150	3000	50	0.84	0.94	23	- 55 to 200	0.07	785	25	13	5,4kN	Press pak	R62	20/42/13,6
R620-44 +	440	110	44	5,5@10ms	151@10ms	- 55 to 175	2200	50	0.82	0.82	23	- 55 to 200	0.07	785	25	11	5,4kN	Press pak	R62	20/42/13,6
R620-48 +	485	125	48	6,5@10ms	211@10ms	- 55 to 190	1200	50	0.80	0.63	23	- 55 to 200	0.07	785	25	9	5,4kN	Press pak	R62	20/42/13,6
R700/R701-03	300	80	3	7@8,3ms	204@8,3ms	- 65 to 150	4400	50	0.92	0.55	33	- 65 to 200	0.12	1500	25	9	41 Nm	3/4"-16 Stud(1)	R70	-
R700/R701-04	450	100	4	8,5@8,3ms	266@8,3ms	- 65 to 150	2600	50	0.83	0.40	33	- 65 to 200	0.12	1500	25	11	41 Nm	3/4"-16 Stud(1)	R70	-
R700/R701-05	550	125	5	10@8,3ms	416@8,3ms	- 65 to 175	1600	50	0.65	0.25	33	- 65 to 200	0.12	1500	25	15	41 Nm	3/4"-16 Stud(1)	R70	-
R700/R701-25 +	245	100	25	7@10ms	245@10ms	- 55 to 150	4000	50	1,30	0.60	33	- 55 to 200	0.10	1100	25	15	35Nm	3/4"-16 Stud(1)	R70	-
R700/R701-32 +	315	100	32	8@10ms	320@10ms	- 55 to 150	3000	50	0.90	0.52	33	- 55 to 200	0.10	1100	25	13	35Nm	3/4"-16 Stud(1)	R70	-
R700/R701-44 +	440	110	44	9@10ms	405@10ms	- 55 to 175	2200	50	0.80	0.42	33	- 55 to 200	0.10	1100	25	11	35Nm	3/4"-16 Stud(1)	R70	-
R700/R701-50 +	500	125	50	10@10ms	500@10ms	- 55 to 190	1200	50	0.70	0.32	33	- 55 to 200	0.10	1100	25	9	35Nm	3/4"-16 Stud(1)	R70	-
R720-06	600	85	6	7@8,3ms	204@8,3ms	- 65 to 150	4400	50	0.92	0.61	33	- 65 to 200	0.055	1500	25	7	9 to 11 kN	Press pak	R72	35/60/26,4
R720-09	900	85	9	8,5@8,3ms	301@8,3ms	- 65 to 150	2600	50	0.84	0.42	33	- 65 to 200	0.055	1500	25	10	9 to 11 kN	Press pak	R72	35/60/26,4
R720-12	1200	95	12	12,5@8,3ms	650@8,3ms	- 65 to 175	1600	50	0.68	0.24	33	- 65 to 200	0.055	1500	25	13	9 to 11 kN	Press pak	R72	35/60/26,4
A430-	1375	55	-	10 @8,3ms	415 @8,3ms	- 40 to 200	1500	50	0.62	0.254	30	- 40 to 200	0.06	1500	25	10	8 to 9,8 kN	Press pak	R72	35/60/26,4
R720-52 +	520	100	52	8@10ms	320@10ms	- 55 to 150	3000	50	0.90	0.52	33	- 55 to 200	0.05	1100	25	13	10 kN	Press pak	R72	35/60/26,4
R720-70 +	710	110	70	9@10ms	405@10ms	- 55 to 175	2200	50	0.80	0.42	33	- 55 to 200	0.05	1100	25	11	10 kN	Press pak	R72	35/60/26,4
R720-80 +	810	125	80	10@10ms	500@10ms	- 55 to 190	1200	50	0.70	0.32	33	- 55 to 200	0.05	1100	25	9	10 kN	Press pak	R72	35/60/26,4
R750-08	800	121	8	7,75@10ms	300@10ms	- 65 to 175	2400	50	0.91	0.518	33	- 65 to 200	0.035	1500	25	10	9 to 11 kN	Press pak	R7S	30/49/14,4
R750-12	1200	86	12	9@10ms	337@10ms	- 65 to 175	2400	50	0.831	0.441	33	- 65 to 200	0.035	1500	25	10	9 to 11 kN	Press pak	R7S	30/49/14,4
R750-13	1300	90	13	16,5@8,3ms Vr=0	1360@8,3ms Vr=0	- 40 to 175	1600	150	0.749	0.196	33	- 50 to 200	0.035	1500	25	25	9 to 11 kN	Press pak	R7S	30/49/15,4
R750-15	1500	98	15	14@8,3ms	817@8,3ms	- 40 to 200	2400	150	0.694	0.345	33	- 50 to 200	-	1500	25	25	9 to 11 kN	Press pak	R7S	30/49/15,4
R750-16	1600	98	16	12,8@10ms	819@10ms	- 65 to 200	1600	50	0.63	0.293	30	- 65 to 200	0.035	1500	25	7	9 to 11 kN	Press pak	R7S	30/49/14,4
R7H0-16	1600	98	16	12,8@10ms	819@10ms	- 65 to 200	1600	50	0.63	0.293	30	- 65 to 200	0.035	1500	25	7	9 to 11 kN	Press pak	R7H	25/41/14,6
R820-16	1600	82	16	12,95@10ms Vr=0	699@10ms Vr=0	- 40 to 175	2600	75	0.68	0.247	38	- 50 to 190	0.035	400	25	25	13,3 to 15,5 kN	Press pak	R82	35/60/26,4

R9G0-14	1360	80	14	15.25@10ms Vr=0	1116@10ms Vr=0	- 40 to 150	6500	150	0.793	0.521	50	- 50 to 200	0.02	1500	25	25	22.7 to 27 kN	Press pak	R9G	47/75/27.4
R9G0-12	1200	102	12	14.6@10ms	1066@10ms	- 40 to 150	5400	150	1.07	0.323	50	- 40 to 190	0.02	1500	25	25	22.7 to 27 kN	Press pak	R9G	47/75/26.7
R9G0-18	1800	110	18	19.6@10ms	1920@10ms	- 40 to 175	3200	150	0.814	0.224	50	- 40 to 190	0.02	1500	25	25	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
R9G0-21	2100	124	21	26.5@10ms	3510@10ms	- 40 to 190	2400	150	0.618	0.192	50	- 40 to 190	0.02	1500	25	25	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
R9G0-22	2100	118	21	22@8.3ms	2002@8.3ms	- 40 to 175	2200	75	0.912	0.089	50	- 50 to 200	0.02	1500	25	25	24.5 to 26.7	Press pak (5)	R9G	47/75/26.7
R9G0-22	2200	134	22	27.4@10ms	3750@10ms	- 40 to 150	1600	150	0.79	0.088	50	- 40 to 190	0.02	1500	25	15	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
A451-	2500	88	-	27.3@10ms	2725@10ms	- 40 to 175	2200	50	0.66	0.128	50	- 40 to 200	0.025	-	-	-	22.2 to 24.5 kN	Press pak	R9G	47/75/26.7
R9G0-10 +	1000	90	10	13.4@10ms	900@10ms	- 55 to 150	4400	50	0.91	0.620	50	- 55 to 200	0.018	-	-	-	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
R9G0-13 +	1300	75	13	16@10ms	1280@10ms	- 55 to 150	4000	50	0.83	0.470	50	- 55 to 200	0.018	-	-	-	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
R9G0-17 +	1700	60	17	20@10ms	2000@10ms	- 55 to 150	3600	50	0.74	0.330	50	- 55 to 200	0.018	-	-	-	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
R9G0-18 +	1800	80	18	21.5@10ms	2300@10ms	- 55 to 175	3600	50	0.69	0.320	50	- 55 to 200	0.018	-	-	-	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
R9G0-21 +	2100	75	21	26.7@10ms	3560@10ms	- 55 to 175	2600	50	0.68	0.220	50	- 55 to 200	0.018	-	-	-	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
R9G0-22 +	2200	100	22	30@10ms	4500@10ms	- 55 to 190	2400	50	0.61	0.200	50	- 55 to 200	0.018	-	-	-	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
R9G0-26 +	2600	100	26	38@10ms	7220@10ms	- 55 to 190	1400	50	0.58	0.120	50	- 55 to 200	0.018	-	-	-	22.7 to 27 kN	Press pak (5)	R9G	47/75/26.7
R9S0-30	3000	115	30	28.6@8.33ms Vr=0	3410@8.33ms Vr=0	- 50 to 200	2600	75	0.91	0.089	50	- 40 to 175	0.015	1500	25	25	24.5 to 26.7kN	Press pak	R9S	47/75/16.5
RA20-20	2000	99	20	21.8@10ms	2375@10ms	- 40 to 150	5400	150	0.96	0.207	67	- 40 to 200	0.013	1500	25	25	41 to 50 kN	Press pak (5)	RA2	64/102/32.6
RA20-25	2500	100	25	25.5@10ms	3250@10ms	- 40 to 150	4200	200	0.74	0.132	67	- 40 to 200	0.013	1500	25	25	41 to 50 kN	Press pak (5)	RA2	64/102/32.6
RA20-36	3600	100	36	36.5@10ms	6660@10ms	- 40 to 175	2600	200	0.66	0.113	67	- 40 to 200	0.013	1500	25	22	41 to 50 kN	Press pak (5)	RA2	64/102/32.6
RA20-48	4800	98	48	44.6@10ms	9945@10ms	- 40 to 190	1200	200	0.65	0.063	67	- 40 to 200	0.013	1500	25	16	41 to 50 kN	Press pak (5)	RA2	64/102/32.6
RAS00412XX	12000	68	12	57300@10ms Vr=0	16416@10ms Vr=0	- 40 to 175	400	100	0.978	0.005	67	- 50 to 200	0.008	400	25	25	40 to 48.9 kN	Press pak	RAS	63/100/26.2
RBK8-25	2500	85	25	61@10ms Vr=0	18600@10ms Vr=0	- 40 to 150	6500	150	0.79	0.238	77	- 50 to 200	0.0115	2000	25	25	26.6 to 44.4 kN	Press pak	RBK	73/113/38
RBS8-28	2850	85	28	61@10ms Vr=0	18600@10ms Vr=0	- 40 to 150	6500	150	0.79	0.238	77	- 50 to 200	0.0095	2000	25	25	26.6 to 44.4 kN	Press pak	RBS	73/113/27
RBS8-35	3500	89	35	77.4@10ms Vr=0	29900@10ms Vr=0	- 40 to 150	4200	150	0.77	0.125	77	- 50 to 200	0.0095	2000	25	25	26.6 to 44.4 kN	Press pak	RBS	73/113/26
RBK8-40	4000	82	40	45.6@10ms	10400@10ms	- 40 to 160	3200	100	0.70	0.093	77	- 40 to 175	0.0115	1500	25	25	26.6 to 44.4 kN	Press pak	RB2	73/113/36
RBS8-45	4500	94	45	62.4@10ms Vr=0	19500@10ms Vr=0	- 40 to 175	3200	125	0.786	0.0997	77	- 50 to 200	0.0095	1500	25	25	26.6 to 44.4 kN	Press pak	RBS	73/113/26
RBK8-50	5000	90	50	91.5@10ms Vr=0	41900@10ms Vr=0	- 40 to 175	2400	150	0.661	0.066	77	- 50 to 200	0.0115	400	25	25	26.6 to 44.4 kN	Press pak	RB2	73/113/36
RBS8-56	5680	90	56	103.7@10ms Vr=0	33800@10ms Vr=0	- 40 to 175	2400	150	0.661	0.066	77	- 50 to 200	0.0095	400	25	25	26.6 to 44.4 kN	Press pak	RBS	73/113/26
RBK8-63	6300	100	63	115.9@10ms Vr=0	67200@10ms Vr=0	- 40 to 190	1600	100	0.688	0.036	77	- 40 to 200	0.0115	400	25	25	26.6 to 44.4 kN	Press pak	RB2	73/113/36
RBS8-70	7000	79	70	55@10ms	15125@10ms	- 40 to 175	600	100	0.645	0.044	77	- 40 to 175	0.0095	1500	25	25	26.6 to 44.4 kN	Press pak	RBS	73/113/26
RBS8-72	7200	84	72	115.9@10ms Vr=0	67200@10ms Vr=0	- 40 to 190	1600	100	0.704	0.0479	77	- 50 to 200	0.0095	2000	25	35	26.6 to 44.4 kN	Press pak	RBS	73/113/26
RB20-30 +	3000	100	30	36@10ms Vr=0	6500@10ms Vr=0	- 40 to 170	4500	100	0.79	0.18	77	- 40 to 175	0.011	-	-	-	27 to 40 kN	Press pak (5)	RB2	73/113/36
RB20-35 +	3500	115	35	57@10ms Vr=0	16200@10ms Vr=0	- 40 to 175	3200	100	0.84	0.08	77	- 40 to 175	0.011	-	-	-	27 to 40 kN	Press pak (5)	RB2	73/113/36
RB20-38 +	3800	124	38	63@10ms Vr=0	19800@10ms Vr=0	- 40 to 185	2600	100	0.71	0.08	77	- 40 to 190	0.011	-	-	-	27 to 40 kN	Press pak (5)	RB2	73/113/36
RB20-80 +	8000	68	80	79@10ms Vr=0	31200@10ms Vr=0	- 40 to 190	1600	100	0.70	0.035	77	- 40 to 190	0.011	-	-	-	27 to 40 kN	Press pak (5)	RB2	73/113/36
RCS8-80 *	8000	84	80	152.5@10ms Vr=0	16000@10ms Vr=0	- 50 to 200	1400	200	0.650	0.038	88	- 40 to 180	0.008	1000	25	25	53 to 57 kN	Press pak	RCS	84/124/27
RDK8-40 *	4000	68	40	55.5@10ms Vr=0	12800@10ms Vr=0	- 40 to 150	6000	300	1.130	0.117	100	- 50 to 190	0.0090	400	25	25	71.2 to 89 kN	Press pak	RD2	100/144/36
RDS8-80	8000	90	80	92.5@10ms Vr=0	4280@10ms Vr=0	- 40 to 175	2500	300	0.654	0.0382	100	- 50 to 200	0.0075	400	25	25	71.2 to 89 kN	Press pak	RDS	100/144/27
RDS8-10	10000	90	10	111@10ms Vr=0	61600@10ms Vr=0	- 40 to 175	1200	300	0.642	0.023	100	- 50 to 200	0.0075	400	25	25	71.2 to 89 kN	Press pak	RDS	100/144/27

## ORDERING INFORMATION

Select the complete part number you desire from the following table

Type	Standard Rectifier	Voltage (V) VRRM Code		Current (A) IF(AV) code	Recovery time trr (µs)	Leads code only for stud
R51	0/1	200	02	select the current code in IFAV column	00	See our standard codes on drawings
R50	0/1	400	04			
R61	0/1	"	"			
R60	0/1	1000	10			
R62	0	"	"			
R70	0/1	2500	25			
R72	0	"	"			
R7S	0	4500	45			
R7H	0	"	"			
R82	0	5400	54			
R9G	0					Other leads are available on request
RA2	0					
RB2	0					
RBS	8					
RBK	8					
RDK	8					
RDS	8					

- 0 : Standard Diode (for stud standard polarity : cathode to base)  
 1 : Standard Diode (for stud reverse polarity : anode to base)  
 8 : Standard Diode (Press pak only)

Type	Voltage (V) VRRM Code	
A430	600	M
A451	800	N
	1000	P
	1200	PB
	1400	PD
	1600	PM
	1800	PN
	2000	L
2200	LB	
2400	LD	

### Examples :

#### R500 12 10 00 WA

R50 : Case thread 3/8"  
 0 : Standard diode (cathode to base)  
 12 : VRRM = 1200 V  
 10 : IF(AV) = 100 A  
 00 : trr not specified  
 WA : lead length 113 mm

#### A451LB

A451 : R9G case press pak  
 LB : VRRM=2200V

### Notes

- (1) = Available with metric thread on request  
 (2) = 100% reapplied voltage unless otherwise specified  
 (3) = DC Value  
 (4) = Available in 1/2" --> R5C  
 (5) = Available with flat package : R9A, RAA or RBT  
 (6) = Glass metal seals

+ Old version diode  
 ° preliminary data sheet

All values shown in this document are subject to change for product improvement. The information, diagrams and all other data included herein are believed to be correct and reliable.