



FAST RECOVERY DIODES for GTO

TYPE	VRRM (5) max Tj = Tj max (V)	IRRM typical Tj = Tj max (mA)	IF (AV) at Tc		current code	IFSM (2) 1 pulse (kA)	I2t for fusing (kA2s)	Junction temperature range (°C)	Vo Tj = Tj max (V)	rt (m*)	Chip size (mm)	storage temp. (°C)	RthJC (3) (°C/W)	Typical reverse recovery time (5) @ Tj=25°C			PACKAGE INFORMATION			
			(A)	(°C)										IFM (A)	-dir/dt (A/μs)	trr (μs)	Mounting force or torque	Style	Outline	contact/ flange/ height (mm)
STUD DIODES																				
<i>Up to 2500V</i>																				
R5CS/R5CR--10ES	1600	30	100	75	10	3.2@10ms	51.2@10ms	- 40 to 125	1.20	1.10	16	- 40 to 150	0.28	600	30	2	15 Nm	3/8"-24 Stud (1)(4)	R5C	
R60S/R60F--15ES	2500	30	150	68	15	4@10ms	80@10ms	- 40 to 125	1.90	1.70	23	- 40 to 150	0.13	1000	30	2	30-35 Nm	3/4"-16 Stud(1)	R60	
PRESS PAK DIODES																				
<i>Up to 1600V</i>																				
R72S/R72F--50CS	1600	30	500	75	50	9.5@10ms	450@10ms	- 40 to 125	1.05	0.50	33	- 40 to 150	0.055	1000	30	3	8.9 to 11 kN	Press pak	R72	35/60/26.4
R75S/R75F--60CS	1600	30	600	77	60	9.5@10ms	450@10ms	- 40 to 125	1.05	0.50	33	- 40 to 150	0.035	1000	30	3	8.9 to 11 kN	Press pak	R75	30/49/14.4
R9GF--15BS	1600	50	1500	75	15	20@10ms	2000@10ms	- 40 to 125	0.90	0.15	50	- 40 to 150	0.018	1000	30	4	22 to 36 kN	Press pak	R9G	47/75/26.7
<i>Up to 2500V</i>																				
R62S/R62F--20ES	2500	30	200	73	20	4@10ms	80@10ms	- 40 to 125	1.90	1.70	23	- 40 to 150	0.095	1000	30	2	4.5 to 6.2 kN	Press pak	R62	20/42/13.6
R72S/R72F--33DS	2500	50	330	75	33	6@10ms	180@10ms	- 40 to 125	1.70	1.00	33	- 40 to 150	0.055	1000	30	2.5	8.9 to 11 kN	Press pak	R72	35/60/26.4
R75S/R75F--40DS	2500	50	400	75	40	6@10ms	180@10ms	- 40 to 125	1.70	1.00	33	- 40 to 150	0.035	1000	30	2.5	8.9 to 11 kN	Press pak	R75	30/49/14.4
R9GS--10CS	2500	50	1000	75	10	15@10ms	1125@10ms	- 40 to 125	1.20	0.40	50	- 40 to 150	0.018	1000	30	3	22 to 36 kN	Press pak	R9G	47/75/26.7
R9GF--10BS	2500	50	1000	78	10	16@10ms	1280@10ms	- 40 to 125	1.20	0.33	50	- 40 to 150	0.018	1000	30	4	22 to 36 kN	Press pak	R9G	47/75/26.7
RA2F--16AS	2500	50	1600	75	16	21@10ms	2200@10ms	- 40 to 125	0.78	0.33	67	- 40 to 150	0.013	1000	30	5	26 to 53 kN	Press pak	RA2	64/102/32.6
RAAF--16AS	2500	50	1600	75	16	21@10ms	2200@10ms	- 40 to 125	0.78	0.33	67	- 40 to 150	0.013	1000	30	5	26 to 53 kN	Press pak	RAA	64/102/25.5
<i>Up to 4500V</i>																				
R72S/R72F--20BS	4500	50	200	75	20	4@10ms	80@10ms	- 40 to 125	2.60	2.40	33	- 40 to 150	0.055	1000	30	4	8.9 to 11 kN	Press pak	R72	35/60/26.4
R82S/R82F--35BS	4500	50	350	75	35	5.5@10ms	151@10ms	- 40 to 125	1.70	2.00	38	- 40 to 150	0.037	1000	30	4	9 to 16 kN	Press pak	R82	35/60/26.4
R9GS/R9GF--08AS	4500	50	800	72	08	13@10ms	845@10ms	- 40 to 125	1.18	0.88	50	- 40 to 150	0.018	1000	30	5	22 to 36 kN	Press pak	R9G	47/75/26.7
RA2F--10AS	4500	100	1000	80	10	14@10ms	980@10ms	- 40 to 125	1.40	0.66	67	- 40 to 150	0.013	1000	30	5	26 to 53 kN	Press pak	RA2	64/102/32.6

ORDERING INFORMATION

Select the complete part number you desire from the following table

Type	Fast Rectifier	Voltage (V)		Current (A) IF(AV) code	Recovery time			Leads code only for stud
		VRRM	Code		trr (μs)	Old code	New code	
R50	2/3	200	02	select the current code in IFAV column	10		ZS	See our standard codes on drawings
R50	S/R	400	04		8		YS	
R60	2/3/S/F/R/E	"	"		6		WS	Other leads are available on request
R62	2/S/F	1000	10	5,5		IS		
R70	2/3	"	"	5	AJ	AS		
R72	S/F	2500	25	4,5		OS		
R7S	2/S/F	"	"	4		BS		
R82	S/F	4500	45	3,5		TS		
R9G	2/S/F	"	"	3	CJ	CS		
RA2	F	"	"	2,75		US		
				2,5		DS		
				2,25		VS		
				2	EJ	ES		
				1,5	FJ	FS		
				1,25		GS		
				1		HS		
				0,9		JS		
				0,8		KS		
				0,7		LS		
				0,6		MS		
				0,5		PS		
				0,4		QS		
				0,3		RS		
				0,2		NS		
				0,1		SS		

Examples :

R502 12 10 CS WA

R50 : Case thread 3/8"
2 : Fast recovery diode standard polarity
12 : VRRM = 1200 V
10 : IF(AV) = 100 A
CS : trr • 3 μs
WA : lead length 113 mm

R9GS 45 08 AS

R9G : Case R9G
S : GTO Snubber Diode
45 : VRRM = 4500 V
08 : IF(AV) = 800 A
AS : trr • 5 μs

Notes

- (1) = Available with metric thread on request
- (2) = 100% reapplied voltage
- (3) = DC Value
- (4) = Available in 1/2" -> R5C or 3/8" -> R50
- (5) = Maximum voltage not always available for trr mini
- (6) = Available in flat package: R9A / RAA
- + Old version diode

- 2 : Fast Recovery Diode (for stud standard polarity : cathode to base)
- 3 : Fast Recovery Diode (for stud reverse polarity : anode to base)
- S : GTO Snubber Diode (for stud standard polarity : cathode to base)
- R : GTO Snubber Diode (for stud reverse polarity : anode to base)
- F : GTO Free Wheel Diode (for stud standard polarity : cathode to base)
- E : GTO Free Wheel Diode (for stud reverse polarity : anode to base)