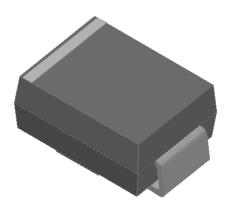
Surface Mount Fast Recovery Rectifier



Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Fast reverse recovery time
- \bullet Meets MSL level 1, per J-STD-020, LF maximum peak of 260 $^\circ\text{C}$

Typical Applications

For use in high frequency rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

- **Package**: DO-214AA (SMB) Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GR2A	GR2B	GR2D	GR2G	GR2J	GR2K	GR2M
Device marking code			GR2A	GR2B	GR2D	GR2G	GR2J	GR2K	GR2M
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current $@60$ Hz sine wave, resistance load, T _L (Fig.1)	IO	А	2.0						
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Ta=25°C	IFSM	А	50						
Storage temperature	Tstg	°C	-55~+150						
Junction temperature	Tj	°C	-55~+150						

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GR2A	GR2B	GR2D	GR2G	GR2J	GR2K	GR2M		
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=2.0A	1.3								
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =1.0A, I _r =0.25A	150 250			150 250 500			0		
Maximum DC reverse current at				IRRM U		T _a =25℃	5.0					
rated DC blocking voltage per diode @ VRM=VRRM	iκκim	μA	Ta=125℃	200								



GR2A THRU GR2M

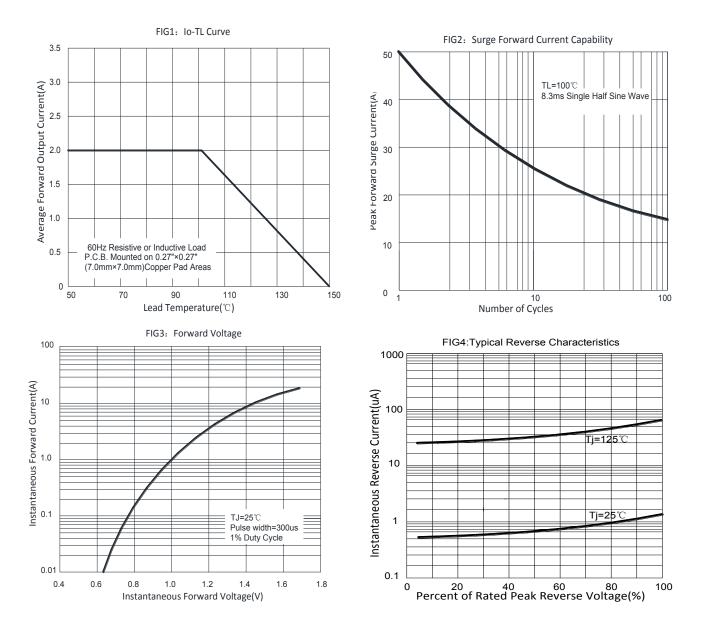
Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GR2A	GR2B	GR2D	GR2G	GR2J	GR2K	GR2M	
	RθJ-A	сw	55 ¹⁾							
Thermal resistance	RθJ-L	0/00	18 ¹⁾							

Note

(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas

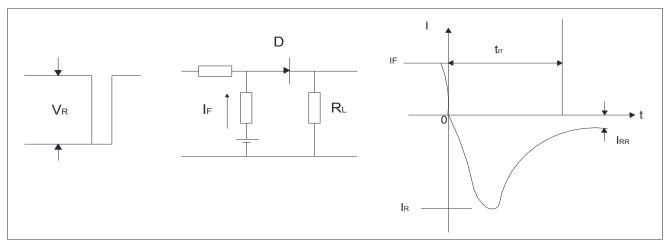
■ Characteristics (Typical)



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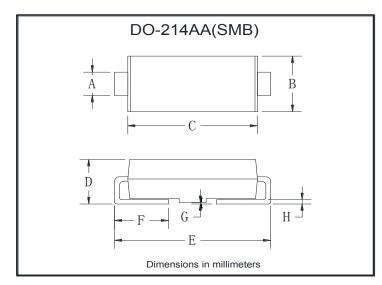
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GR2A-GR2M	F1	Approximate 0.096	3000	6000	48000	13" reel
GR2A-GR2M	F2	Approximate 0.096	750	3000	24000	7" reel
GR2A-GR2M	F3	Approximate 0.096	500	2000	16000	7" reel

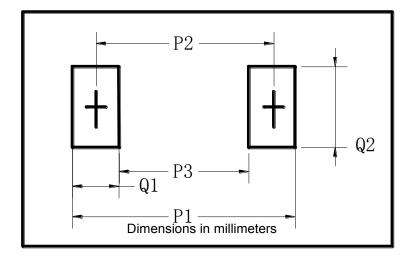
Outline Dimensions



DO-214AA(SMB)						
Dim	Min	Max				
А	1.85	2.15				
В	3.30	3.94				
С	4.25	4.75				
D	1.99	2.61				
E	5.21	5.59				
F	0.90	1.41				
G	0.10	0.20				
Н	0.15	0.31				



Suggested pad layout



DO-214AA(SMB)				
Dim	Millimeters			
P1	6.5			
P2	1.5			
P3	1.7			
Q1	2.5			
Q2	4.0			

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GR2A THRU GR2M

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