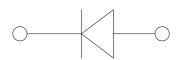




Surface Mount Fast Recovery Rectifier





Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- High forward surge capability
- Fast reverse recovery time
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °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

J-31D-002 and JE3D22-B102

• Polarity: Cathode line denotes the cathode end

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

= maximum (atmgs (a 20 0 cmoco care moco specimen)									
PARAMETER	SYMBOL	UNIT	GR3AB	GR3BB	GR3DB	GR3GB	GR3JB	GR3KB	GR3MB
Device marking code			GR3AB	GR3BB	GR3DB	GR3GB	GR3JB	GR3KB	GR3MB
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, resistance load, TL (Fig.1)	IO	А	3.0						
Surge(non-repetitive)forward current @60Hz half-sine wave,1 cycle, Ta=25℃	IFSM	А	100						
Storage temperature	Tstg	$^{\circ}$	-55~+150						
Junction temperature	Tj	$^{\circ}$	-55~+150						

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GR3AB	GR3BB	GR3DB	GR3GB	GR3JB	GR3KB	GR3MB
Maximum instantaneous forward voltage drop per diode	VF	٧	IFM=3.0A 1.3							
Maximum reverse recovery time	t _r	ns	I _F =0.5A,I _R =1.0A, I _n =0.25A	150			250	50	00	
Maximum DC reverse current at rated DC blocking voltage	IRRM	μA	T _a =25°C	5.0						
per diode @ VRM=VRRM	INIXIVI	μΛ	T _a =125℃	100						

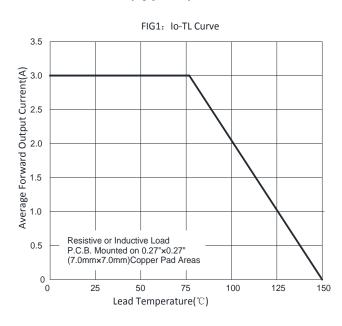
■Thermal Characteristics (T_a=25°C Unless otherwise specified)

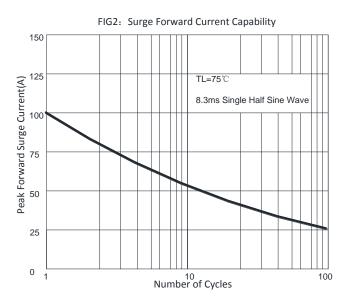
PARAMETER	SYMBOL	UNIT	GR3AB	GR3BB	GR3DB	GR3GB	GR3JB	GR3KB	GR3MB
Thermal resistance	R0J-A(1)	°€₩	75 ¹⁾						
mermanesistance	R ₀ J-L(1)	C/VV	201)						

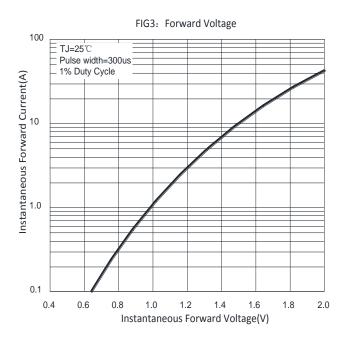
Note:

(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)







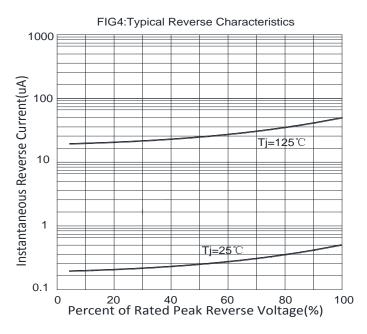
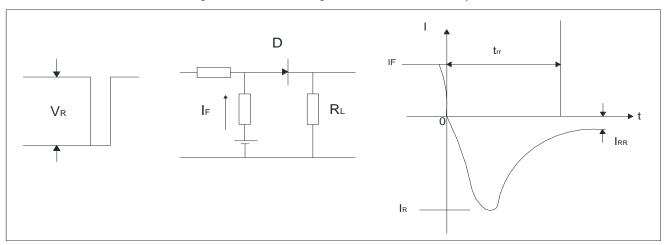


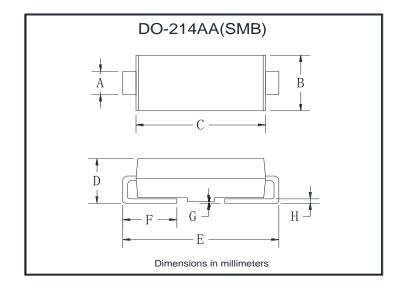
FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



■Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GR3AB-GR3MB	F1	Approximate 0.096	3000	6000	48000	13" reel
GR3AB-GR3MB	F2	Approximate 0.096	750	3000	24000	7" reel
GR3AB-GR3MB	F3	Approximate 0.096	500	2000	16000	7" reel

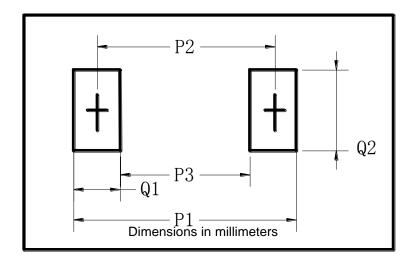
■ Outline Dimensions



DO-214AA(SMB)					
Dim	Min	Max			
Α	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	Dim Millimeters			
P1	6.8			
P2	4.3			
P3	1.8			
Q1	2.5			
Q2	2.3			



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