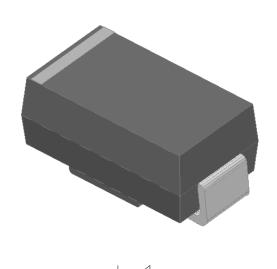




Surface Mount Fast Recovery Rectifier



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 fast switching rectification of power supplies, inverters, converters, and freewheeling diodes for consumer and telecommunication.

Mechanical Data

- Package: DO-214AC (SMA)
 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)

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PARAMETER	SYMBOL	UNIT	GR2AA	GR2BA	GR2DA	GR2GA	GR2JA	GR2KA	GR2MA
Device marking code			GR2AA	GR2BA	GR2DA	GR2GA	GR2JA	GR2KA	GR2MA
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)	Ю	Α	2						
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 (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GR2AA	GR2BA	GR2DA	GR2GA	GR2JA	GR2KA	GR2MA
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 _π =0.25A		0		250	50	00	
Maximum DC reverse current at rated DC blocking voltage per diode @ VRM=VRRM			T _a =25°C μΑ Τa=125°C		5					
		μΑ			100					

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

PARAMETER	SYMBOL	UNIT	GR2AA	GR2BA	GR2DA	GR2GA	GR2JA	GR2KA	GR2MA
Tunical Thomas I Decistors	RθJ-A(1)	°C/W	65 ¹⁾						
Typical Thermal Resistance	RθJ-L(1)	°C/W	25 ¹⁾						

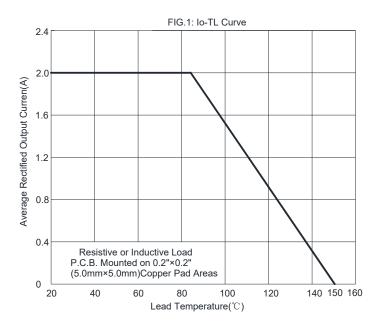
Note

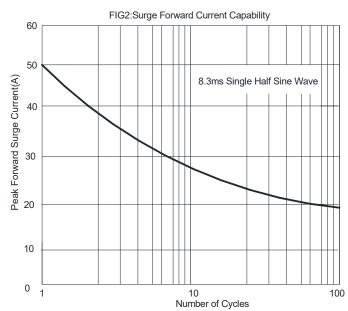
(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

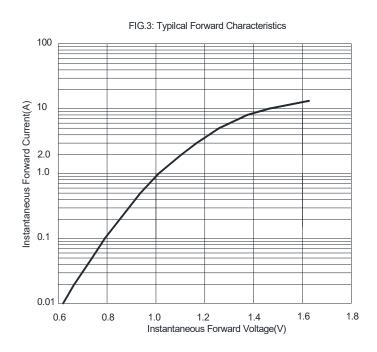
■Ordering Information (Example)

Establing information (Example)						
PREFERED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GR2AA- GR2MA	F1	Approximate 0.059	5000	10000	80000	13" reel
GR2AA- GR2MA	F2	Approximate 0.059	7500	15000	120000	13" reel
GR2AA- GR2MA	F3	Approximate 0.059	7500	15000	60000	13" reel
GR2AA- GR2MA	F4	Approximate 0.059	1800	7200	57600	7" reel
GR2AA- GR2MA	F5	Approximate 0.059	2000	8000	64000	7" reel
GR2AA- GR2MA	F6	Approximate 0.059	5000	10000	100000	13" reel

■ Characteristics (Typical)







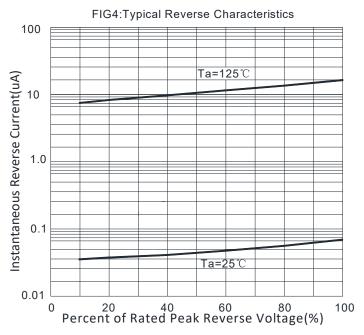
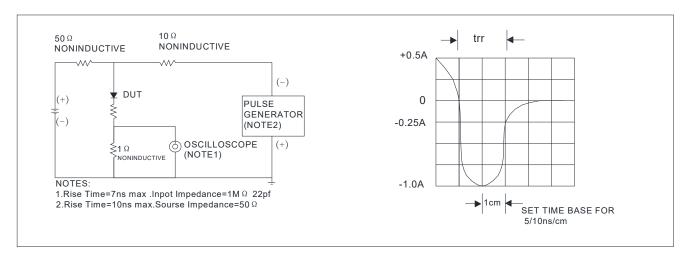
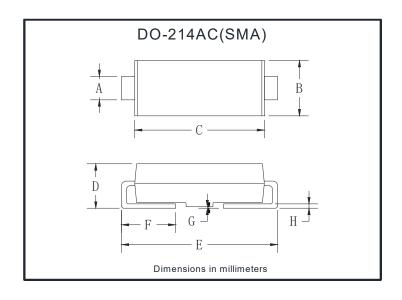


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time



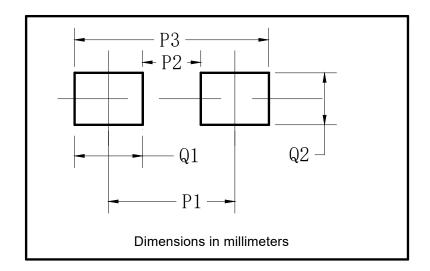
■ Outline Dimensions



DO-214AC(SMA)					
Dim	Min	Max			
Α	1.25	1.58			
В	2.40	2.83			
С	4.25	4.75			
D	1.90	2.30			
Е	4.93	5.28			
F	0.76	1.41			
G	0.08	0.20			
Н	0.15	0.31			



■ Suggested Pad Layout



DO-214AC(SMA)				
Dim	Millimeters			
P1	4.00			
P2	1.50			
P3	6.50			
Q1	2.50			
Q2	1.70			



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