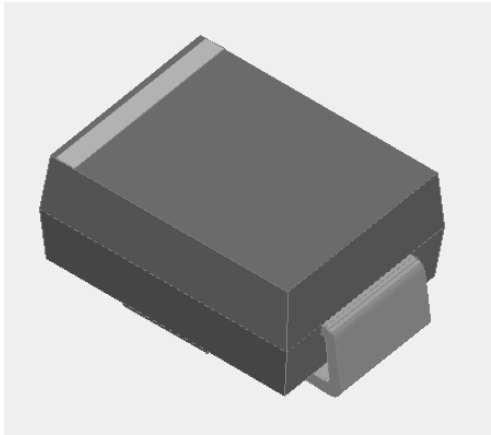


Surface Mount Fast Recovery Rectifier

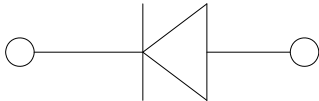


Features

- 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 freewhy



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 Unless otherwise specified

PARAMETER	SYMBOL	UNIT	GR2A	GR2B	GR2D	GR2G	GR2J	GR2K	GR2M
Device marking code			GR2A	GR2B	GR2D	GR2G	GR2J	GR2K	GR2M
Maximum Repetitive Peak Reverse Voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	14		VDC }	V	50 / 100

	FSM	A	50
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, Tj=25			100
Current squared time @1ms≤t≤82	Storage temperature	Tstg	-55 ~ +150
Junction temperature	Tj		-55 ~ +150



GR2A THRU GR2M

■Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	GR2A	GR2B	GR2D	GR2G	GR2J	GR2K	GR2M
Maximum instantaneous forward voltage	V _F	V	I _{FM} =2.0A	1.3						
Maximum reverse recovery time	t _r	ns	I _F =0.5A, I _R =1.0A, I _r =0.25A	150				250	500	
Maximum DC reverse current at rated DC blocking voltage	I _R	μA	T _j =25	5.0						
			T _j =125	100						
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	18				11		

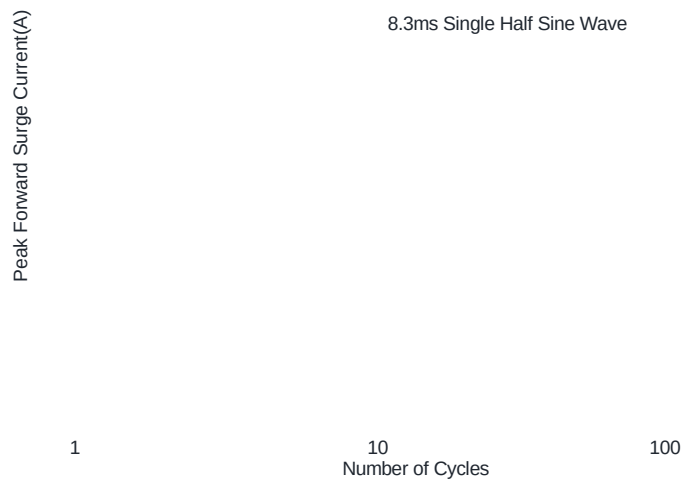
■Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	GR2A	GR2B	GR2D	GR2G	GR2J	GR2K	GR2M
Typical Thermal Resistance	$R_{\theta J-A(1)}$	/W	60						
	$R_{\theta J-L(1)}$		20						
	$R_{\theta J-C(1)}$		18						

Note:
(1) Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas

■ Characteristics (Typical)

FIG2: Surge Forward Current Capability





GR2A THRU GR2M

■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	/	48000	13" reel
GR2A-GR2M	F2	Approximate 0.096	750	6000	24000	7" reel

GR2A THRU GR2M



GR2A THRU GR2M

Disclaimer