

General Purpose Rectifier

Features

- High efficiency
- High current capability
- High reliability
- High surge current capability
- Low power loss
- Glass passivated chip junction
- Solder dip 265 °C max.10 s, per JESD 22-B106

Typical Applications

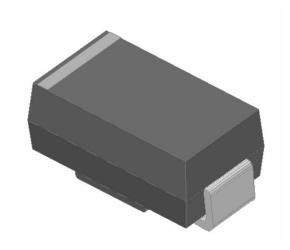
For use in general purpose rectification of power supplies, inverters, converters, and freewheeling diodes for consumer, and telecommunication.

Mechanical Data

• Package:SMA

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant

- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity:Color band denotes cathode end





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

PARAMETER	Symbol	Unit	GS1MM
Maximum Repetitive Peak Reverse Voltage	VRRM	\ \	2000
Maximum RMS Voltage	VRMS	V	1400
Maximum DC blocking Voltage	VDC	٧	2000
Average Forward Current @Half-sine wave, Resistance load, Tc(Fig.1)	lo	А	1
Forward Surge Current (Non-repetitive) @60HZ sine wave, 1 cycle, Ta=25°C	Ігѕм	А	25
Current squared time @1ms≤t8.3≤ms Ta=25℃,Rating of per diode	l²t	A ² s	2.6
Thermal Resistance(Typical) @Between junction and ambient	R _{0J-A}	°C/W	95
Storage Temperature	Tstg	$^{\circ}$ C	-55 ~ +150
Junction Temperature	T _j	$^{\circ}$	-55 ~ +150

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

PARAMETER	Symbol	Unit	Conditions	GS1MM
Peak Forward Voltage	VFM	V	I F =1.0A	1.9
Peak Reverse Current I _F			VR =V _{DC} @Ta=25℃	5
	I _{RRM}	μA	VR =V _{DC} @Ta=125℃	200



■ Characteristics (Typical)

FIG.1: lo-TL Curve

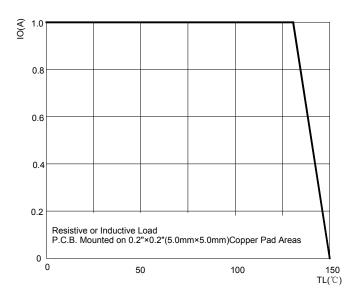


FIG.2: Forward Surge Current Capability

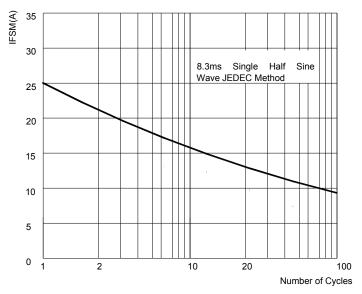


FIG.3: Forward Voltage

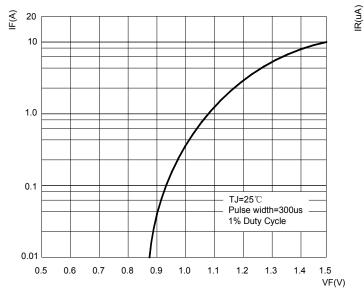
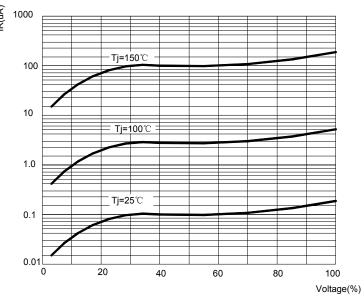


FIG.4: Typical Reverse Characteristics



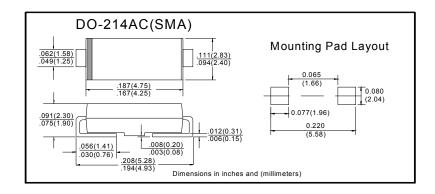
GS1MM



■ Ordering Information (Example)

PREFERED	PACKAGE CODE	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GS1MM	SMA	5000	10000	80000	13" reel

■ Outline Dimensions



GS1MM



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