



Typical Applications

For use in general purpose 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 (T_a=25 Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	GS1Z
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Forward current @60Hz Half-sine wave, 1 cycle, T _j =25	I _{FSM}	A	25
Forward Surge Current (Non-repetitive) @1ms, square wave, 1 cycle, T _j =25			50
Current squared time @1ms t 8.3ms T _j =25	I ² t	A ² s	2.594
Storage temperature	T _{stg}		-55 ~ +150
Junction temperature	T _j		-55 ~ +150

		UNIT	TEST CONDITIONS	GS1Z
Maximum instantaneous forward voltage	V _F	V	I _{FM} =1.0A	1.15
Maximum DC reverse current at rated DC blocking voltage	I _R	μA	T _j =25	5
			T _j =125	500
Typical junction capacitance	C _j	pF	Measured at 1MHz and Applied Reverse Voltage of 4.0 V.D.C	6



GS1Z

Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	GS1Z
Typical Thermal Resistance	R J-A(1)	/W	75
	R J-L(1)	/W	25
	R J-C(1)	/W	15

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



Outline Dimensions

Suggested Pad Layout



GS1Z

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