GS1AM THRU GS1MM

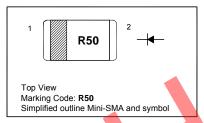
Surface Mount General Purpose Silicon Rectifiers

Reverse Voltage - 50 to 1000 V

Forward Current - 1 A

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings and Electrical characteristics

Ratings at 25°C ambient temperature unless otherwise specified,

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	GS1AM	GS1BM	GS1DM	GS1GM	GS1JM	GS1KM	GS1MM	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _a = 65°C	I _{F(AV)}	1						Α	
Peak Forward Surge Current 8,3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50						Α	
Maximum Instantaneous Forward Voltage at 1 A	V _F				1.1				>
Maximum DC Reverse Current $T_a = 25^{\circ}$ C at Rated DC Blocking Voltage $T_a = 125^{\circ}$ C	I _R	10 50						μΑ	
Typical Junction Capacitance 1)	C _j	4						pF	
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	180						°C/W	
Operating and Storage Temperature Range	T_j , T_{stg}	- 55 to + 150						°C	

¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C



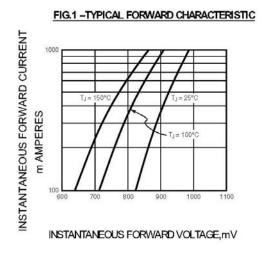


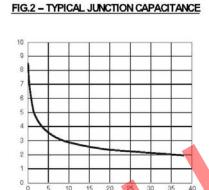






²⁾ Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted

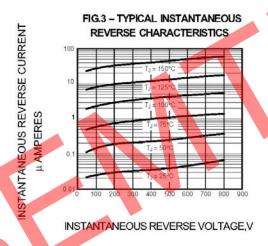




CAPACITANCE, pF

AVERAGE FORWARD CURRENT AMPERES REVERSE VOLTAGE, VOLTS

FIG.4 - FORWARD DERATING CURVE



0.5 0.6 0.4 0.2 0 25 50 75 100 125 180 178

AMBIENT TEMPERATURE, °C







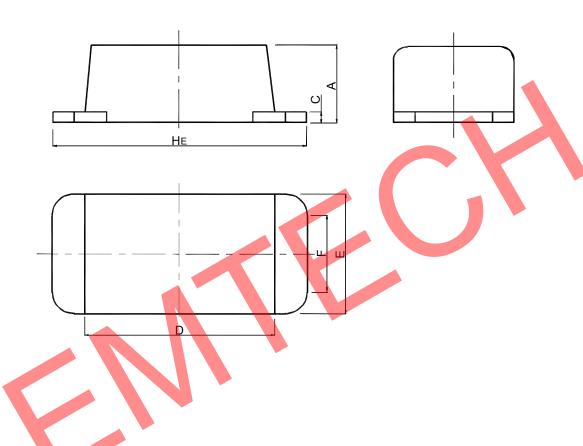




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

Mini-SMA



UNIT	Α	С	D	Е	F	H _E
mm	1.08	0.2	2.9	1.9	1.53	3.9
mm	0.88	0.1	2.6	1.7	1.43	3.5

