SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIERS

Forward Current-1.0A

Reverse Voltage-50V to 1000V

FEATURES

- For surface mount applications
- ♦ Glass passivated chip junction
- Low profile package
- ♦ ESD (HBM) > 4KV
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

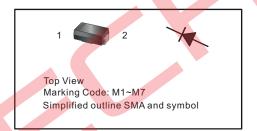
Case: SMA molded plastic body

◆ Terminals: Solderable per MIL-STD-750, Method 2026

♦ Weight: Approximated 0.055 grams

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 derating by 20 %.

PARAMETER	SYMBOL	M1GAT	M2GAT	M3GAT	M4GAT	M5GAT	M6GAT	M7GAT	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	٧
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	I _{F(AV)}				1.0				Α
Peak Forward Surge Current (Note1)	I _{FSM}	30					Α		
Maximum Forward Voltage at 1.0 A	V _F				1.1				٧
Maximum DC Reverse Current at Rated DC Blocking Voltage T _A =25°C T _A =125°C	I _R	5 50				μΑ			
Typical Junction Capacitance (Note2)	С				15				pF
Typical Thermal Resistance (Note3)	$R_{\theta JA}$				75				°C/W
Operating and Storage Temperature Range	T _J ,T _{STG}			-5	5 to +15	50			°C

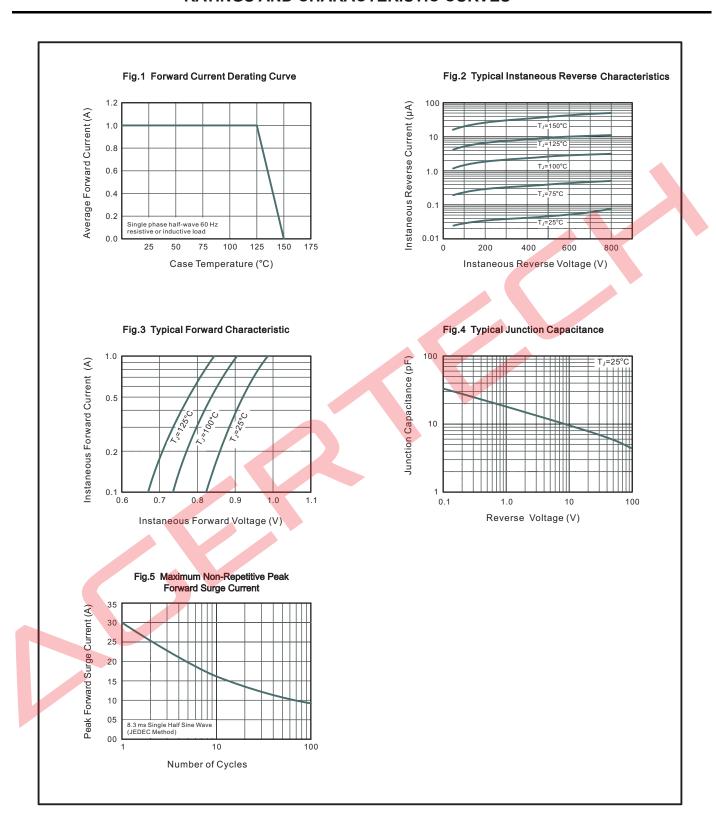
Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

- 2. Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 3. P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.



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RATINGS AND CHARACTERISTIC CURVES



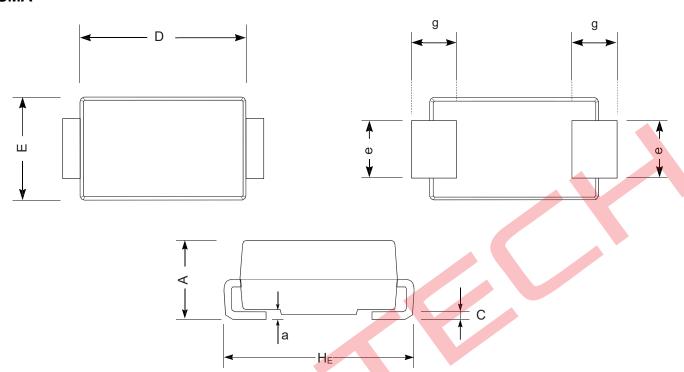


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Rev:2.0

PACKAGE OUTLINE

SMA



UNIT		A	D	Ш	HE	С	е	g	а
	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0
mm	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	0.3
	max	87	181	106	205	12	63	59	40
mil	min	75	157	91	185	6	51	35	12

ORDERING INFORMATION

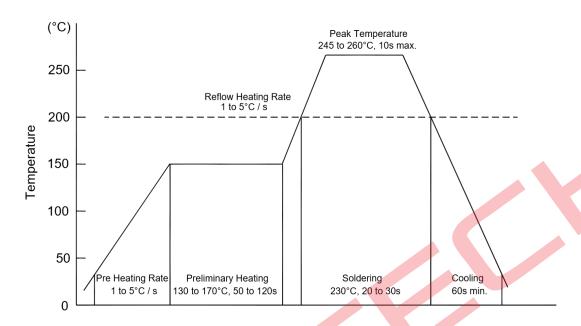
Device	Package	Shipping			
M1GAT thru M7GAT	SMA	5,000/Tape & Reel (13 inches)			



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CONDITIONS OF SOLDERING AND STORAGE

■ RECOMMENDED CONDITIONS OF REFLOW SOLDERING



Recommended peak temperature is over 245 °C. If peak temperature is below 245 °C, you may adjust the following parameters:

- Time length of peak temperature (longer)
- Time length of soldering (longer)
- Thickness of solder paste (thicker)

♦ Condition of hand soldering

Temperature: 370 °C

Time: 3s max.

Times: one time

STORAGE CONDITIONS

♦ Temperature

5 to 40 °C

♦ Humidity

30 to 80% RH

◆ Recommended period One

yaer after manufacturing

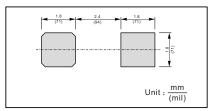
■ MSL

◆ 1 Level

Marking

Type number	Marking code
M1GAT	M1
M2GAT	M2
M3GAT	М3
M4GAT	M4
M5GAT	M5
M6GAT	M6
M7GAT	M7

Pad size



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