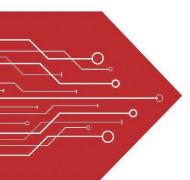
# MSKSEMI















**ESD** 

**TVS** 

**TSS** 

MOV

**GDT** 

**PLED** 

Product data sheet

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Compiance



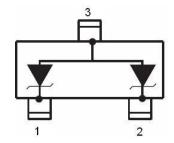
#### **FEATURES**

- We declare that the material of product compliance with RoHS requirements and Halogen Free.
- S- prefix for automotive and other applications requiring unique site and control change requirements; AEC-Q101 qualified and PPAP capable.
- 2 Unidirectional transil functions
- Low leakage current:IR max< 20 μA at VRM
- 300W peak pulse power(8/20µs)
- Transient protection for data lines as per IEC61000-4-2(ESD) 15KV(air)8KV(contact) IEC61000-4-5(Lightning) see IPPM below

#### **APPLICATIONS**

- Computers
- Printers
- Communication systems





### **ELECTRICAL CHARACTERISTICS (Ta= 25°C)**

Part Numbers	V <sub>BR</sub>					С	
	Min.	Тур.	Max.	lτ	$V_{RWM}$	I <sub>R</sub>	Typ. 0v bias
	V	V	V	mA	V	μA	pF
GSOT05C-MS	6.0	6.7	7.4	1	5.0	1	30
GSOT12C-MS	13.3	14.0	14.7	1	12.0	1	25
GSOT15C-MS	16.7	17.4	18.1	1	15.0	1	25
GSOT24C-MS	26.7	28.2	29.6	1	24.0	1	20

<sup>1).8/20</sup> waveform used. (see fig2.)

# **ABSOLUTE RATINGS(Ta = 25°C)**

Parameter	Symbol	Limits	Unit
Peak Pulse Power (tp = 8/20µs)	PPP	300	W
Lead Solder Temperature - Maximum	TL	260	°C
(10 Second Duration)			
Storage Temperature Range	Tstg	<b>-</b> 55∼+150	°C
Operating Temperature Range	Тор	<b>-</b> 40∼+125	°C
Maximum junction temperature	Tj	150	°C
Electrostatic discharge	VPP		kV
IEC61000-4-2 air discharge		15	
IEC61000-4-2 contact discharge		8	



# **ELECTRICAL CHARACTERISTICS (Ta= 25°C)**

Symbol	Parameter	
VRM	Stand-off voltage	
VBR	Breakdown voltage	
VCL	Clamping voltage	
IRM	Leakage current	
IPPM	Peak pulse current	

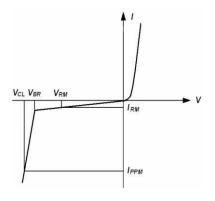


FIG1: Pulse Waveform

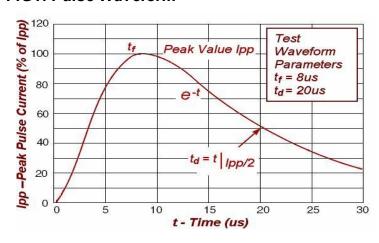
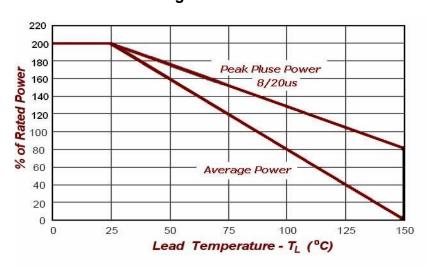
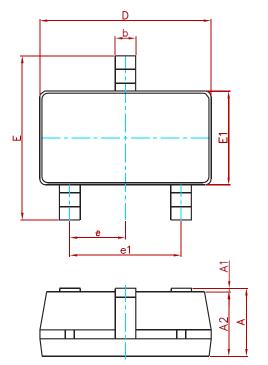


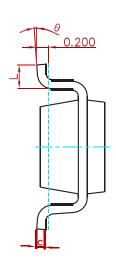
FIG2:Power Derating





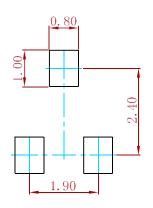
#### **PACKAGE MECHANICAL DATA**





Symbol	Dimensions I	n Millimeters	Dimensions In Inches		
Syllibol	Min.	Max.	Min.	Max.	
Α	1.050	1.250	0.041	0.049	
A1	0.000	0.100	0.000	0.004	
A2	1.050	1.150	0.041	0.045	
b	0.300	0.500	0.012	0.020	
С	0.100	0.200	0.004	0.008	
D	2.820	3.020	0.111	0.119	
E1	1.500	1.700	0.059	0.067	
Е	2.650	2.950	0.104	0.116	
е	0.950(BSC)		0.037(BSC)		
e1	1.800	2.000	0.071	0.079	
L	0.300	0.600	0.012	0.024	
0	0°	8°	0°	8°	

# **Suggested Pad Layout**



- 1.Controlling dimension:in millimeters. 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.

## **REEL SPECIFICATION**

P/N	PKG	QTY
GSOTXXC-MS	SOT-23	3000



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