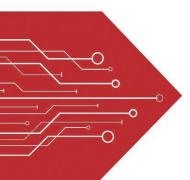
MSKSEMI















ESD

TVS

TSS

MOV

GDT

PLED

Product data sheet

www.msksemi.com





- Cellular phones audio
- MP3 players
- Digital cameras
- Portable applicationss
- mobile telephone

Features

- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) per Human Body Model
- IEC61000-4-2 Level 4 ESD Protection
- We declare that the material of product compliant 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.



SOD882



ELECTRICAL CHARACTERISTICS

P/N	V _{RWM} (V)	I _R (μΑ) @ V _{RWM}	V _{BR} (V) @ I _T (Note 2)	Ιτ	Vc (V) @ IPP = 1 A (Note 3)	V _C (V) @MAX IPP (Note 3)	IPP(A) (Note 3)	Ppk(W) (Note 3)	C (I	oF)
1710	Max	Max	Min	mA	Max	Max	Max	Max	Тур	Max
SP3022-01ETG-MS	5	0.5	6	1.0	12	20	4	80	0.25	0.3

Other voltage available upon request.

- 2. V_{BR} is measured with a pulse test current IT at an ambient temperature of 25 ℃
- 3. Surge current waveform per Figure 1.

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
IEC 61000-4-2 (ESD) Air discharge Contact discharge		±30 ±30	kV kV
ESD Voltage Per Human Body Model		16	kV
Total Power Dissipation on FR-5 Board (Note 1)	PD	200	mW
@ T _A =25℃			
Junction and Storage Temperature Range	TJ,TSTG	-55 to 150	$^{\circ}$
Lead Solder Temperature – Maximum (10	TL	260	$^{\circ}$
Second Duration)			

Stresses exceeding Maximum Ratings may damage the device. Maximum Rating are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

1. FR-5 = 1.0*0.75*0.62 in.





Electrical Parameter

Symbol	Parameter
I _{PP}	Maximum Reverse Peak Pulse Current
Vc	Clamping Voltage @ IPP
V _{RWM}	Working Peak Reverse Voltage
I _R	Maximum Reverse Leakage Current @ V _{RWM}
I _T	Test Current
V_{BR}	Breakdown Voltage @ I⊤

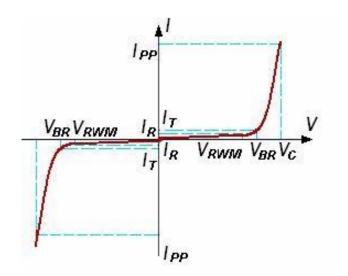


FIG1: Pulse Waveform

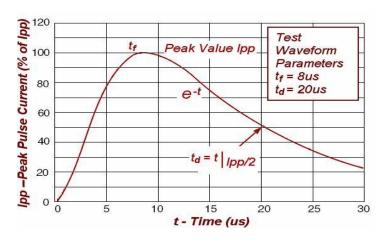
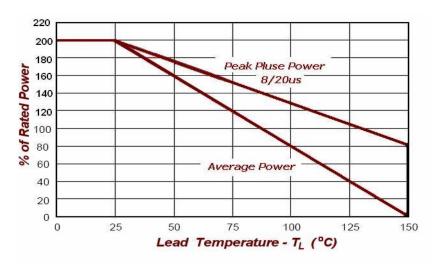
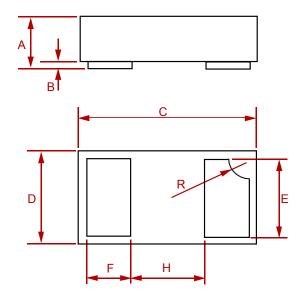


FIG2:Power Derating



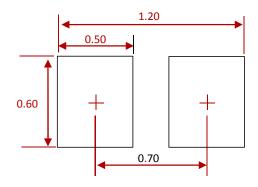


PACKAGE MECHANICAL DATA



Dim	Inc	hes	Millimeters		
Dim	MIN	MAX	MIN	MAX	
Α	0.0125	0.02	0.32	0.52	
В	0.000	0.002	0.00	0.05	
С	0.037	0.043	0.95	1.080	
D	0.022	0.027	0.55	0.680	
Е	0.016	0.024	0.40	0.60	
F	0.008	0.012	0.20	0.30	
Н	0.01	5Тур.	0.40Тур.		
R	0.001	0.005	0.05	0.15	

Suggested Pad Layout



NOTES:

- 1. CONTROLLING DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
- 2. THIS LAND PATTERN IS FOR REFERENCE PURPOSES ONLY. CONSULT YOUR MANUFACTURING GROUP TO ENSURE YOUR COMPANY'S MANUFACTURING GUIDELINES ARE MET.

REEL SPECIFICATION

P/N	PKG	QTY
SP3022-01ETG-MS	SOD-882	10000



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