

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

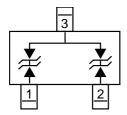
- Halogen free available upon request by adding suffix "-HF"
- For sensitive ESD protection .
- Excellent clamping capability •
- Low leakage .
- ESD rating of class 3(>16KV)per Human Body Mode .
- Fast response ,response time less than 1ns. •
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information) Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

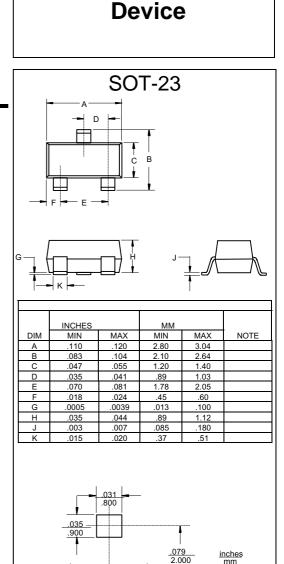
Maximum Ratings

Operating Junction & StorageTemperature: -55°C to +150°C

Parameter		Symbol	Limits	unit
IEC61000-4-2(ESD)	Air		±15	
	Contact		\pm 8	KV
ESD Voltage per human body mode			16	KV
Peak Pulse Power(8/20us)		Ppk	400	w

Pin Configuration-Top View





<u>.037</u> .950

<u>.037</u> .950

SM712

ESD Protection

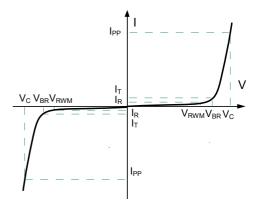
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2013/01/01



ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

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}		
V _{BR}	Breakdown Voltage @ I _T		
IT	Test Current		
С	Capacitance $@V_R=0$ and f =1MHz		



Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units	
Reverse Stand-off Voltage	V _{RWM}	Pin 1 or Pin 2 to Pin 3			12	V	
		Pin 3 to Pin 1 or Pin 2			7	v	
Reverse Breakdown Voltage	V _{BR}	Pin 1 or Pin 2 to Pin 3 $I_t = 1mA$	13.3			V	
		Pin 3 to Pin 1 or Pin 2 $I_t = 1mA$	7.5				
Reverse Leakage Current	I _R	Pin 1 or Pin 2 to Pin 3 V _{RWM} =12V			1.0		
		Pin 3 to Pin 1 or Pin 2 $V_{RWM} = 5V$			1.0	μA	
Clamping Voltage	Vc	Pin 1 or Pin 2 to Pin 3 $I_{PP} = 5A$			21	V	
		Pin 3 to Pin 1 or Pin 2 $I_{PP} = 5A$			10.5		
Junction Capacitance	Cj	V _R =0V f = 1MHz		45		pF	

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Ordering Information :

Device	Packing	
Part Number-TP	Tape&Reel: 3Kpcs/Reel	

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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