

DSM12Z

DSM12Z TVS Diode Array

General description

TVS Diode Array in a SOT-23 Package

FEATURES

- Low clamping voltage
- Low leakage current
- Working voltages: 12V
- Protects two bidirectional lines

APPLICATIONS:

- Cellular Handsets and Accessories
- Portable Electronics
- Industrial Controls
- Servers, Notebook, and Desktop PC

MACHANICAL DATA

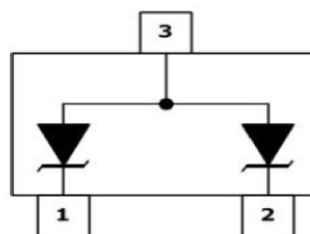
- Flammability Rating: UL 94V-0
- MSL1
- High temperature soldering guaranteed: 260°C/10s

Marking: 12C

Package Outline



SOT-23 Package

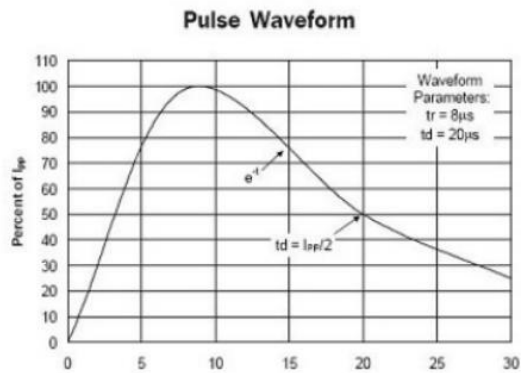
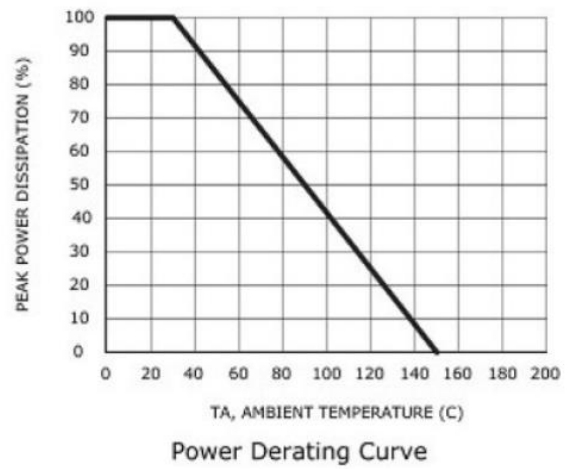
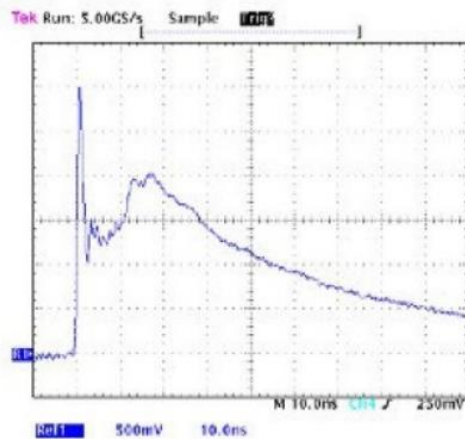


ABSOLUTE MAXIMUM RATING						
Symbol	Parameter	Value	Units			
V_{ESD}	ESD per IEC 61000-4-2 (Air)	± 30	kV			
	ESD per IEC 61000-4-2 (Contact)	± 30				
P_{PP}	Peak Pulse Power (8/20 μ s)	550	W			
T_{OPT}	Operating Temperature	-55/+150	°C			
T_{STG}	Storage Temperature	-55/+150	°C			
T_L	Lead Soldering Temperature	260 (10 sec.)	°C			
ELECTRICAL CHARACTERISTICS (Tamb=25 °C)						
Symbol	Parameter	Test Condition	Min	Typ	Max	Units
V_{RWM}	Reverse Working Voltage				12	V
V_{BR}	Reverse Breakdown Voltage	$I_T = 1mA$	13.3			V
I_R	Reverse Leakage Current	$V_{RWM} = 12V$			1.0	μA
V_C	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20\mu s$			19	V
V_C	Clamping Voltage	$I_{PP} = 22A, t_p = 8/20\mu s$			25	V
C_J	Junction Capacitance	$V_R = 0V, f = 1MHz$		110	150	pF

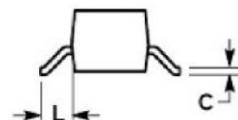
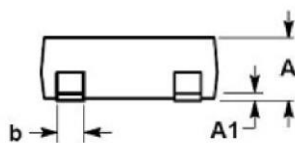
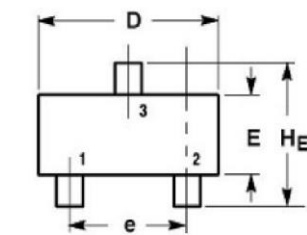


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Typical Characteristic:



SOT-23 PACKAGE OUTLINE DIMENSIONS



DIM	MILLIMETERS			INCHES		
	MIN	NOM	MAX	MIN	NOM	MAX
A	0.89	1.00	1.11	0.035	0.040	0.044
A1	0.01	0.06	0.10	0.001	0.002	0.004
b	0.37	0.44	0.50	0.015	0.018	0.020
c	0.09	0.13	0.18	0.003	0.005	0.007
D	2.80	2.90	3.04	0.110	0.114	0.120
E	1.20	1.30	1.40	0.047	0.051	0.055
e	1.78	1.90	2.04	0.070	0.075	0.081
L	0.35	0.54	0.69	0.014	0.021	0.029
HE	2.10	2.40	2.64	0.083	0.094	0.104

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