

TEPMxx SERIES

TVS Diode Array

DESCRIPTION

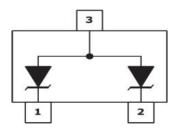
The TEPMxx Series is designed for applications transient overvoltage requiring protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, business machines, communication printers. medical systems, equipment and other applications. These devices are ideal for situations where board space is at a premium.

This series has been specifically designed to protect sensitive components which are connected to power, data and transmission lines from overvoltage caused by ESD(electrostatic discharge), CDE (Cable Discharge Events), and EFT (electrical fast transients).

ORDERING INFORMATION

Device:TEPMxx
Package: SOT-23
Material: Halogen free
Packing: Tape & Reel
Quantity per reel: 3,000pcs

PIN CONFIGURATION



FEATURES

- ♦IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ♦IEC61000-4-4 (EFT) 40A (5/50ηs)
- ♦350 Watts Peak Pulse Power per (tp=8/20µs)
- Protects one bidirectional line or two unidirectional lines
- ♦Low clamping voltage
- ♦Working voltages : 3.3V to 36V
- ♦Low leakage current

MACHANICAL DATA

- ♦SOT-23 package
- ♦Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- → High temperature soldering guaranted:260 °C/10s
- ♦Reel size: 7 inch
- ♦MSL 1

APPLICATIONS

- ♦ Cell Phone Handsets and Accessories
- ♦Microprocessor based equipment
- ♦ Personal Digital Assistants (PDA's)
- ♦ Notebooks, Desktops, and Servers
- ♦ Portable Instrumentation
- ♦ Networking and Telecom
- ♦ Serial and Parallel Ports.
- ♦ Peripherals

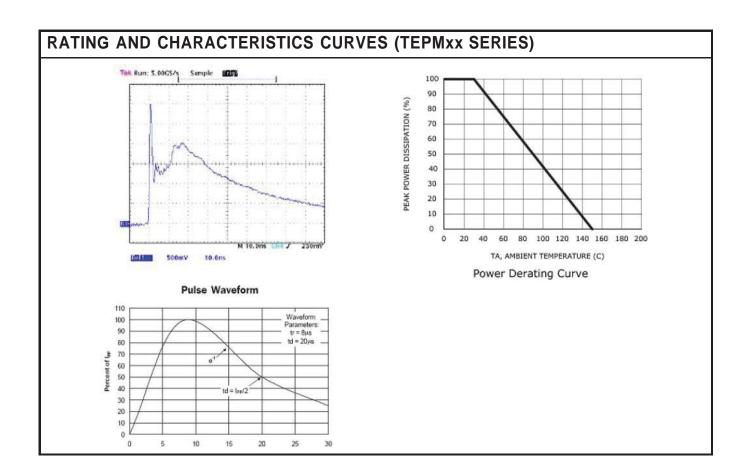
PACKAGE OUTLINE

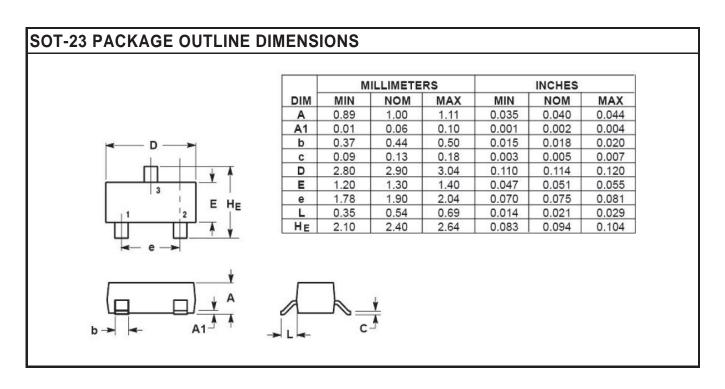


ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units				
V _{ESD}	ESD per IEC 61000-4-2 (Air)	±15	kV				
	ESD per IEC 61000-4-2 (Contact)	±8	N.V				
P _{PP}	Peak Pulse Power (8/20μs)	350	W				
T _{OPT}	Operating Temperature	-55/+150	°C				
T _{STG}	Storage Temperature	-55/+150	°C				
TL	Lead Soldering Temperature	260 (10 sec.)	°C				

ELECTRICAL CHARACTERISTICS (Tamb=25°C)										
PART	DEVICE MARKING	V _{RWM}	V _B	I _T	V _C @1A	V _C		I _R	Сл	
NUMBER		(V)	(V)	(mA)	(V)	(V) (max.) (@A)		(µA)	(pF)	
TTOMBET		(max.)	(min.)		(max.)			(max.)	(max.)	
TEPM03	M03	3.3	4	1	7.0	10.5	20	40	450	
TEPM05	M05	5	6	1	9.8	18	17	10	300	
TEPM08	M08	8	8.5	1	13.4	24	15	2	240	
TEPM12	M12	12	13.3	1	19	32	11	1	130	
TEPM15	M15	15	16.7	1	24	38	10	1	120	
TEPM18	M18	18	20	1	29	45	9	1	100	
TEPM24	M24	24	26.7	1	43	52	7	1	80	
TEPM36	M36	36	40	1	60	75	5	1	60	









PACKAGING OF DIODE

REEL PACK

PACKAGE	PACKING CODE	REEL (EA)	COMPONENT SPACE(mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOT-23/-3L	-T	3,000			178	438*438*220	180,000	

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