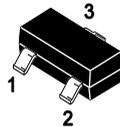
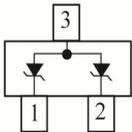


Features

- 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 μ A at VRM
- 24W Peak Power Dissipation @ 1.0 ms (Note 1)
- Transient protection for data lines as per IEC61000-4-2(ESD) 15KV(air) 8KV(contact) IEC61000-4-5(Lightning) see IPPM below

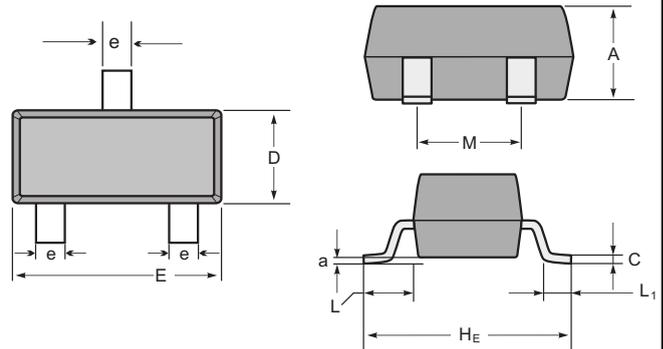
Applications

- Computers
- Printers
- Communication systems



SOT23

SOT23



SOT-23 mechanical data

UNIT		A	C	D	E	HE	e	M	L	L ₁	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

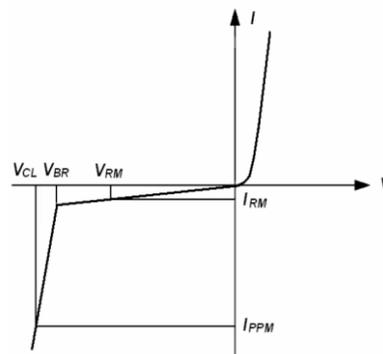
Maximum Ratings (Ta = 25°C)

Parameter	Symbol	Limits	Unit
Peak Power Dissipation @ 1.0 ms (Note 1)	PPK	24	W
Lead Solder Temperature – Maximum (10 Second Duration)	TL	260	°C
Storage Temperature Range	Tstg	-55 ~ +150	°C
Operating Temperature Range	Top	-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	

MMBZ5V6ALT1G

Electrical Parameter

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



Electrical Characteristics (Ta= 25°C)

Device	Device Marking	VRWM Volts	IR @ VRWM μA	Breakdown Voltage			@ IR mA	Max Zener Impedance (Note 5)			VC @ IPP (Note 6)		ΘVBR mV/°C
				VBR (Note 4) (V)				ZZT @ IZT Ω	ZZK @ IZK Ω	VC	IPP		
				Min	Nom	Max		Ω	Ω	V	A		
MMBZ5V6AL	5A6	3.0	5.0	5.32	5.6	5.88	20	11	1600	0.25	8.0	3.0	1.26

RATING AND CHARACTERISTIC CURVES

Fig1. Peak Pulse Power VS Pulse Time

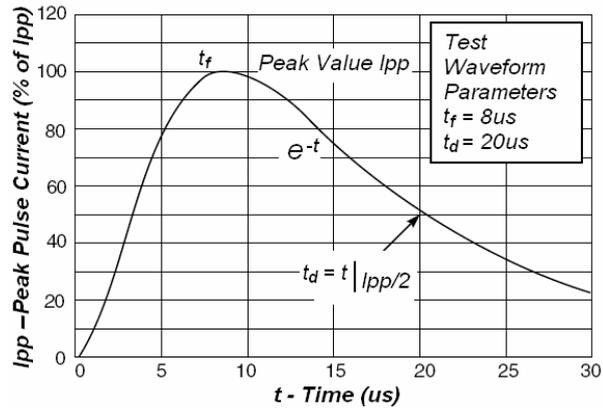


Fig2. Pulse Waveform

