

Features

- Planar Die Construction
- 500mW Power Dissipation on Ceramic PCB
- General Purpose, Medium Current
- Ideally Suited for Automated Assembly Processes
- Available in Lead Free Version



Package Marking and Ordering Information

Product ID	Pack	Brand	Qty(PCS)		
MMSZ5240BT1G	SOD-123	HXY MOSFET	3000		



Absolute Maximum Ratings(Ta=25°C)

Characteristic	Symbol	Value	Unit
Forward voltage @I _F =10mA	V _F	0.85	V
Power Dissipation	P_{D}	500	mW
Thermal Resistance, Junction to Ambient Air	$R_{\theta JA}$	556	°C/W
Junction Temperature	Τį	150	°C
Storage Temperature Range	T _{stg}	-55 ~ + 150	°C

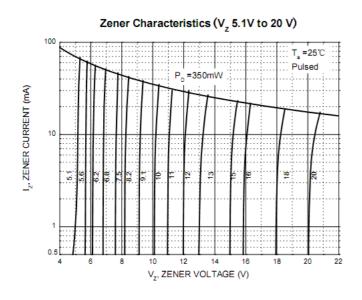
Notes: Device mounted on ceramic PCB;5.0mm×7.0mm with pad areas 35 mm²

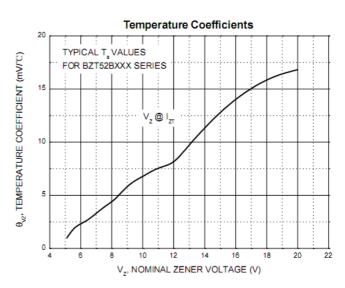
Electrical Characteristics (Ta=25°C unless otherwise specified)

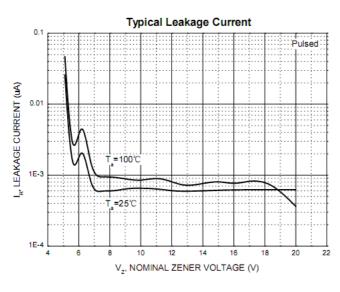
Type Number	Type Code	Zener Voltage Range (Note 2)			Maximum Zener Impedance (Note 3)		Maximum Reverse Current		Typ Tempe Coeff	rature	Test Current I _{ZTC}		
		Vz@I _{ZT} I _{ZT}			Z _{ZT} @I _{ZT}	Z _{ZK} @I _{ZK}	I _{ZK}	I_R	V_{R}	m۷	//°C		
		Nom(V)	Min(V)	Max(V)	mA	Ω	!	mA	μA	V	Min	Max	mA
MMSZ5240BT1G	F5	10	9.80	10.20	5	19	142.5	1.0	0.2	8.0	4.5	8.0	5

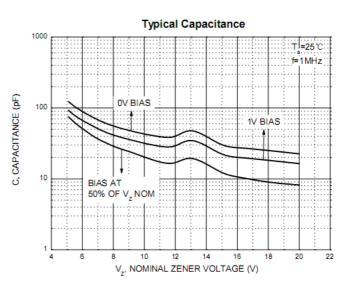


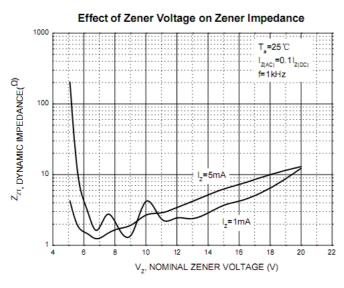
Typical Characteristics

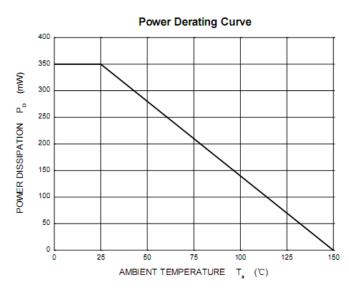






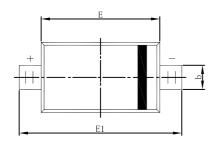


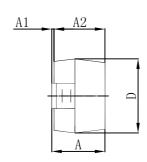


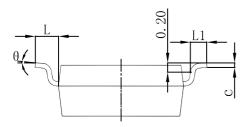




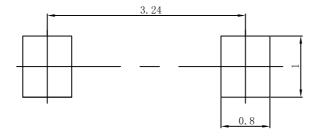
SOD-123 Package Outline Dimensions







Cumbal	Dimensions	In Millimeters	Dimensions In Inches			
Symbol	Min	Max	Min	Max		
Α	1.050	1.250	0.041	0.049		
A1	0.000	0.100	0.000	0.004		
A2	1.050	1.150	0.041	0.045		
Ь	0.450	0.650	0.018	0.026		
С	0.080	0.150	0.003	0.006		
D	1.500	1.700	0.059	0.067		
E	2.600	2.800	0.102	0.110		
E1	3.550	3.850	0.140	0.152		
L	0.500	REF	REF			
L1	0.250	0.450	0.010	0.018		
θ	0°	8°	0°	8°		



Note:

- 1. Controlling dimension: in millimeters.
- 2.General tolerance:± 0.05mm.
- 3. The pad layout is for reference purposes only.



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