

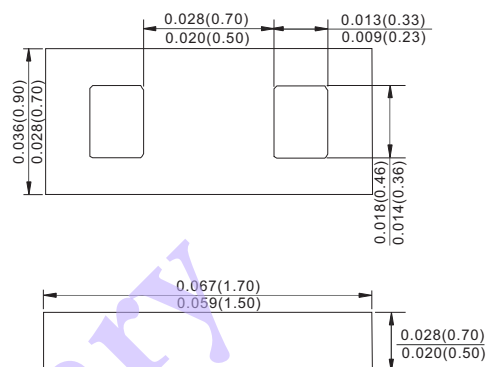
Features

- Stand off voltage:5.0V
- Unidirectional
- Operating Tj max: 150 °C
- ESD-protection acc. IEC 61000-4-2
±30 kV contact discharge
±30 kV air discharge
- mini Flat No-Lead Package.
- Glass passivated chip junction
- **Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"
- **Polarity:** Color band denotes cathode end

Applications

- MP3 Players
- Digital Cameras and camcorders
- LCD Backlight
- Mobile Handsets
- PDA
- LED modules
- Digital TV and Set-top Boxes
- Other Portable Electronic Components

Package outline

mFN-523


Dimensions in inches and (millimeters)

Mechanical data

- Epoxy:UL94-V0 rated flame retardant
- Case : mFN-523
- Mounting Position : Any

Maximum ratings (at T_A=25°C unless otherwise noted)

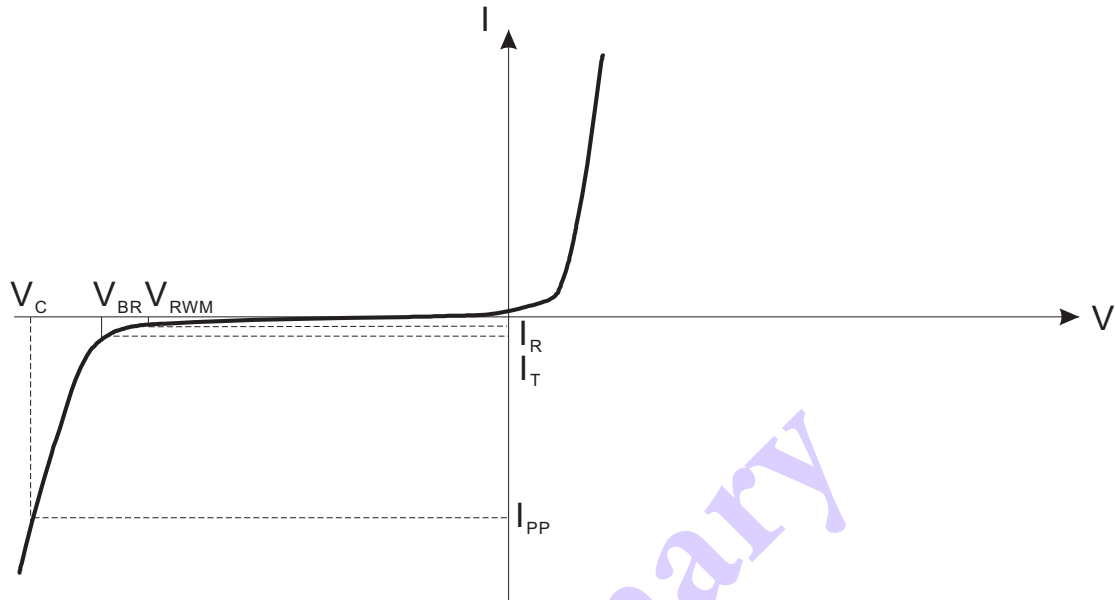
Rating	SYMBOL	VALUE	UNIT
Peak Pulse Power (tp=10/1000us Waveform)	P _{PP}	90	W
Peak Pulse Current (tp=10/1000us Waveform)	I _{PP}	8.0	A
ESD immunity (Contact discharge acc. IEC 61000-4-2) (Air discharge acc. IEC 61000-4-2)	V _{ESD}	±30 ±30	kV kV
Operating temperature	T _J	-55~+150	°C
Storage temperature	T _{STG}	-55~+150	°C

Electrical characteristics (at T_A=25°C unless otherwise)

PARAMETER	TEST CONDITIONS	SYMBOL	MIN.	TYP.	MAX.	UNIT
Reverse Stand Off Voltage		V _{RWM}	-	-	5.0	V
Reverse Leakage Current	V _{RWM} = 5.0V	I _R	-	-	800	uA
Reverse Breakdown Voltage	I _T = 10mA	V _{BR}	6.4	-	7.0	V
Clamping Voltage	I _{PP} = 8.0 A , tp=10/1000us	V _C	-	-	11.2	V



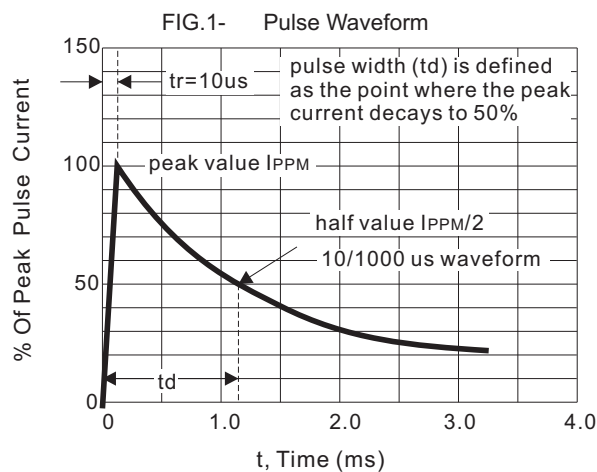
Electrical characteristics (at $T_A=25^\circ\text{C}$ unless otherwise noted)



Uni-Directional TVS

V_{BR} : Breakdown voltage @ I_T
 I_T : Test Current
 V_{RWM} : Reverse Stand Off Voltage
 I_R : Maximum Reverse Leakage Current @ V_{RWM}
 V_C : Clamping Voltage @ I_{PP}
 I_{PP} : Maximum Reverse Peak Pulse Current

Rating and characteristic curves





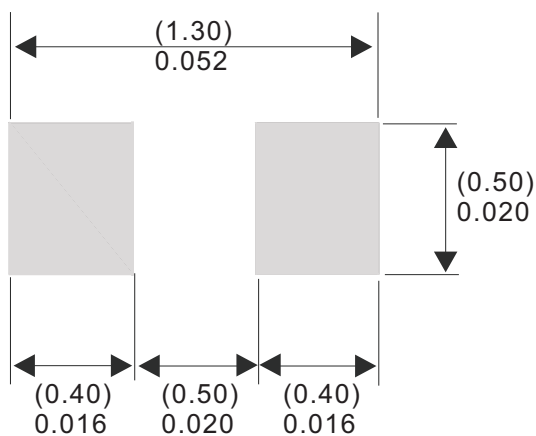
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code
VGFM5.0A-FN5	A

Suggested solder pad layout



Dimensions in inches and (millimeters)