

Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- High Surge Capability
- Super Low Forward Voltage Drop
- Low Profile Package
- Lead Free Finish/Rohs Compliant ("P"Suffix designates Compliant. See ordering information)

Mechanical Data

- Packaging: JEDEC SOD-123
- Marking Code: F02
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

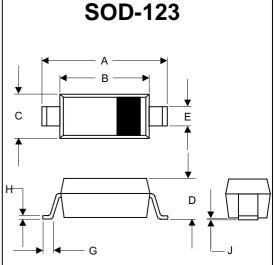
Symbol	Parameter	Rating	Unit
VR(RMS)	Maximum RMS Voltage	14	V
V_{RRM}	Repetitive Reverse Voltage	20	V
I _{F(AV}	Average Forward Current	1	А
I _{FSM}	Surge Forward Current at 8.3ms	12	А
RthJa	Typical Thermal Resistance ⁽¹⁾	60	°C/W
RthJa	Typical Thermal Resistance ⁽²⁾	180	°C/W
Pd	Power Dissipation (1)	1.67	W
Pd	Power Dissipation (2)	556	mW
T _{stg&j}	Junction&Storage Temperature	-65 to +125	°C



Low Forward Volatge Drop

Schottky Barrier

Diodes



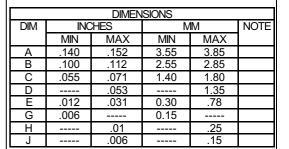
Electrical Characteristics @ 25°C Unless Otherwise Specified

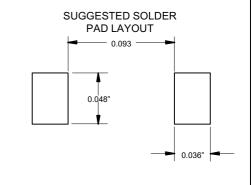
Symbol	Parameter	Min	Тур	Max	Units
V _F	Forward Voltage @0.1A @0.7A @1A		0.2 0.3 0.32	0.36	V
I _R	Leakage Current @VR=5V @VR=20V		0.26	1	mA
Ст	Typical Junction Capacitance @f=1.0MHz,Vr=10V		75		PF

Note

1. Part mounted on 50.8mm X 50.8mm GETEK board with 25.4mm X 25.4mm copper pad.TA = 25°C.

2. Part mounted on FR-4 board with 1.8mm X 2.5mm copper pads. TA = 25°C.





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MBRX120LF

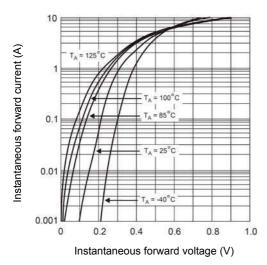


Fig.1 Typical forward characteristics

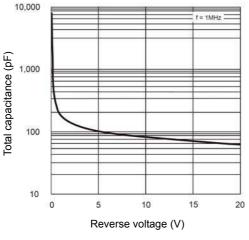


Fig.3 Typical total capacitance

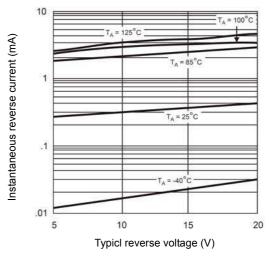


Fig.2 Typical reverse characteristics

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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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