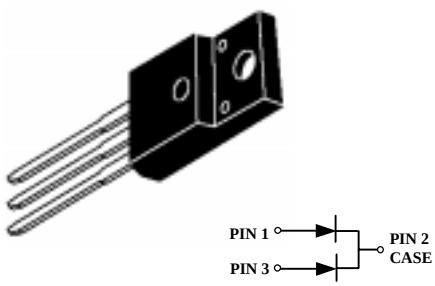
Data Sheet

10 Amp High Voltage SCHOTTKY BARRIER RECTIFIERS

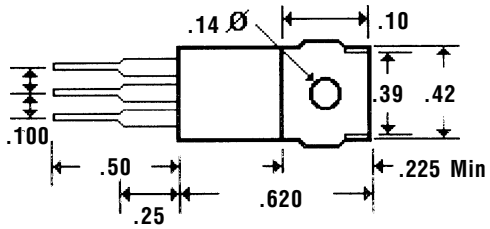
FBRF1020&10100

Description



ITO-220AB

Mechanical Dimensions



Dimension in Inch

Features

- **HIGH CURRENT CAPABILITY WITH LOW V_F**
- **HIGH SURGE VOLTAGE AND TRANSIENT PROTECTION**
- **SUPERIOR METAL PROCESS**
- **MEETS UL SPECIFICATION 94V-0**

Maximum Ratings And Electrical Characteristics (Ta=25℃)

Parameters	Symbol	FBRF10							
		20	30	40	45	50	60	80	100
Average forward current, Io at Tc =104℃ 60Hz, Resistive or Inductive Load	IF	10A							
Peak Repetitive Reverse Voltage	VRRM	20	30	40	45	50	60	80	100
Working Peak Reverse Voltage	V RWM	20	30	40	45	50	60	80	100
DC Blacking Voltage	VDC	20	30	40	45	50	60	80	100
Forward Voltage @IF= 5A	VF	0.55V				0.65V		0.75V	0.85V
Non-Peak Forward Surge Current, @Rated Load Conditions 8.3mS 1/2 Sine-Wave	IFMS	125A							
Repetitive Peak Reverse Surge Current	IRSM	0.5A							
Max. Reverse Current IR At Rated DC Reverse Voltage. Tc =25/125℃	IR	5.0mA 50mA							
Typical thermal Resistance,	R θ JC	2℃/W							
Operating and Storage Temperature Range	To/Ts	-65 to +150℃/-65 to +175℃							

NOTES： 1.PULSE TEST: 300μS PULSE WIDTH, 1% DUTY CYCLE

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RATINGS AND CHARACTERISTIC CURVES OF SRF10-03CT AND SRF10-10CT

FIG. 1 - FORWARD CURRENT DERATING CURVE

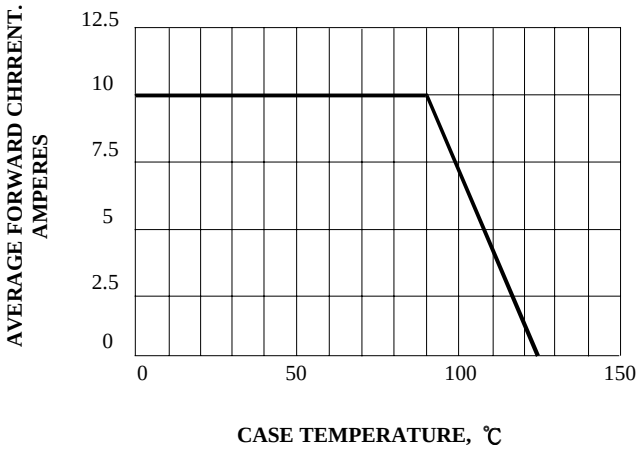

FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

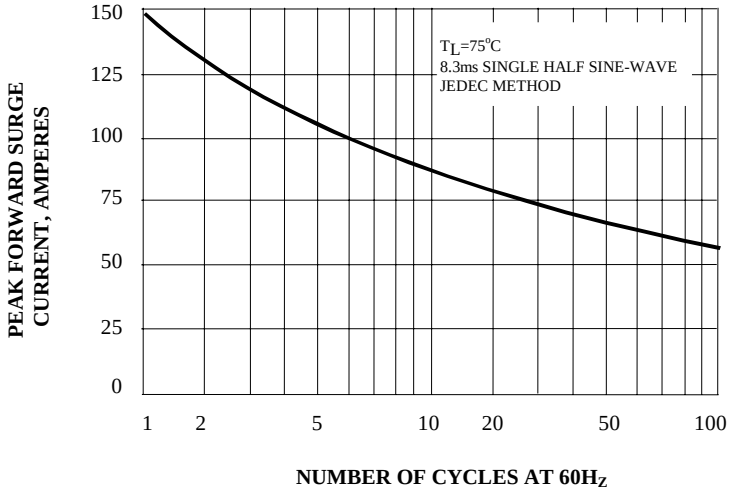

FIG. 3 - TYPICAL REVERSE CHARACTERISTICS

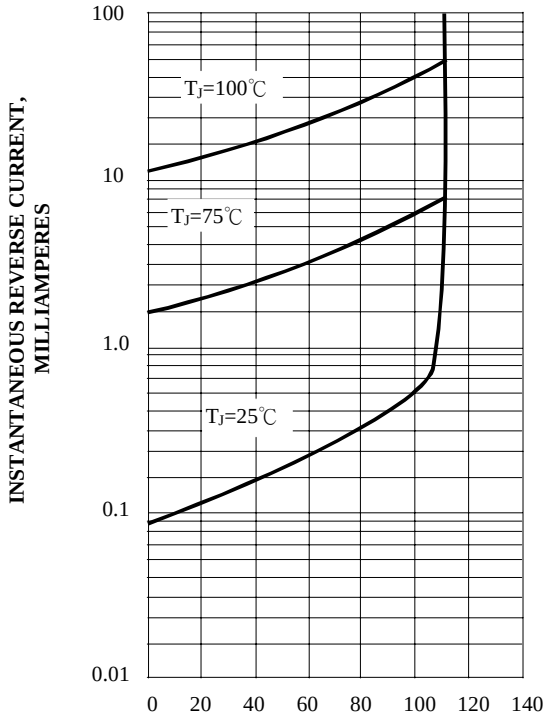

FIG. 4 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS