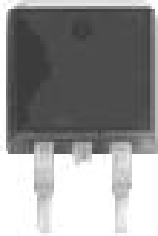




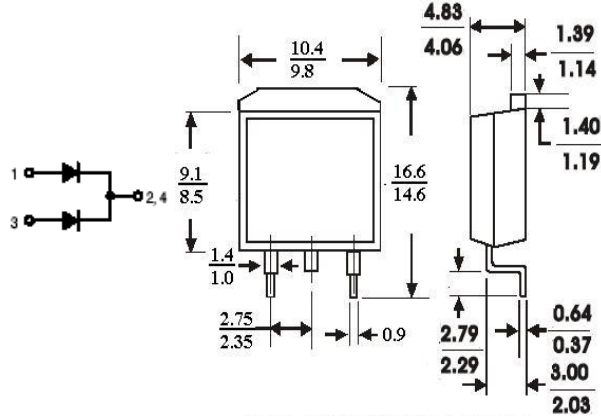
# 15 Amps Dual die Surface Mount Schottky Barrier Power Rectifier

## Description

FBRD1520...15100



## Mechanical Dimensions



TO-263

Dimension in mm

### Feature

- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Current capability
- Outline Free Pb

### Mechanical Data

- Case: TO-263 Molded Plastic
- Epoxy: UL94-V Rate Flame Retardant
- Terminals: Lead Solderable per MIL-STD-202 Method 208 Guaranteed
- Weight: 1.7 grams (approx.)

Max Ratings at Ta=25C Unless Otherwise Specified

Characteristic	Symbol	FBRD1520	FBRD1540	FBRD1550	FBRD1560	FBRD1580	FBRD15100	Unit
Peak Repetitive Reverse Voltage	V <sub>rrm</sub>	20	40	50	60	80	100	V
working Peak Reverse Voltage	V <sub>rwm</sub>	20	40	50	60	80	100	V
DC Blocking Voltage	V <sub>dc</sub>	20	40	50	60	80	100	V
RMS Reverse Voltage	V <sub>r(rms)</sub>	14	28	35	42	56	70	V
Forward Continuous Current ; per leg/ package	I <sub>F(AV)</sub>	15						A
non-Repetitive peak Surge Current Halfwave single phase, 60Hz	I <sub>FSM</sub>	150						A
Max Forward Voltage I <sub>F</sub> =7.5A @25C	V <sub>f</sub>	0.55		0.75		0.85		V
Reverse Leakage Current; note. 1@ 25C/100C	I <sub>r</sub>	0.5/100						mA
Operating & storage Temp. Range	T <sub>j</sub> /T <sub>s</sub>	-65~+150						C
Thermal Resistance Junction to Case	R <sub>thjc</sub>	2.0						C/W
Typical Diode Capacitance V <sub>r</sub> =-5V, f=1.0MHz	C <sub>d</sub>	700						pF

Note: 1. Measured at 1.0MHz and applied reverse voltage at 4.0V DC



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## RATING AND CHARACTERISTIC CURVES

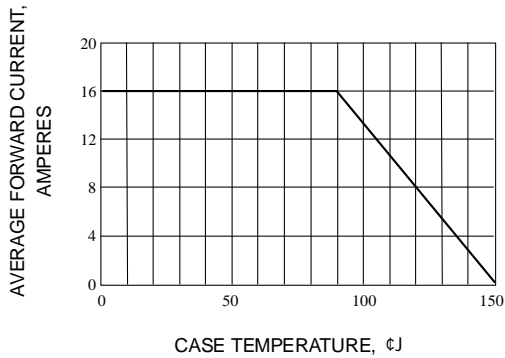


Fig. 1-FORWARD CURRENT DERATING CURVE

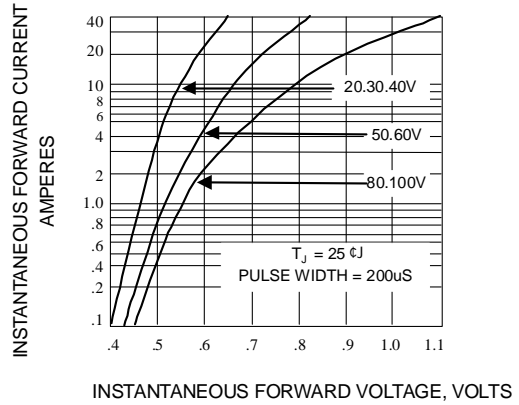


Fig. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

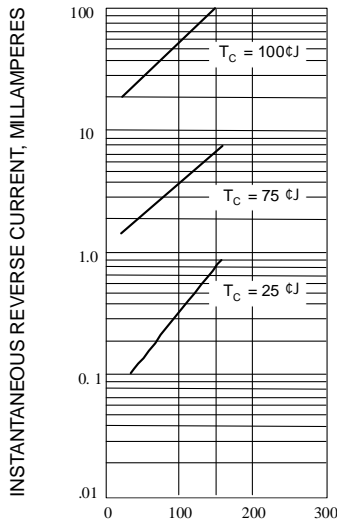


Fig. 3-TYPICAL REVERSE CHARACTERISTICS

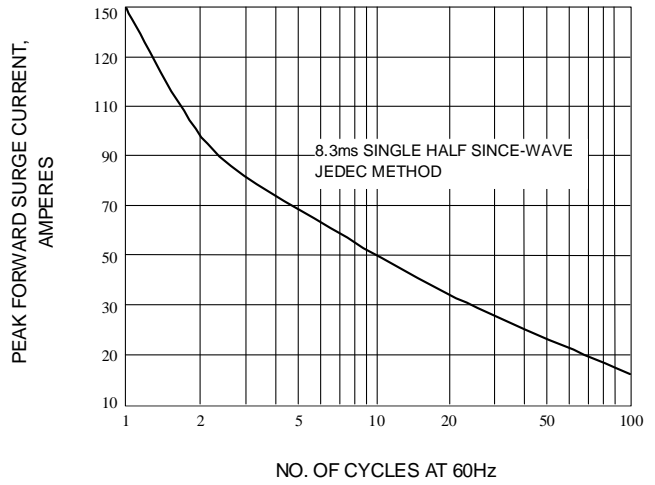


Fig. 4-MAXIMUM NON-REPETITIVE SURGE CURRENT

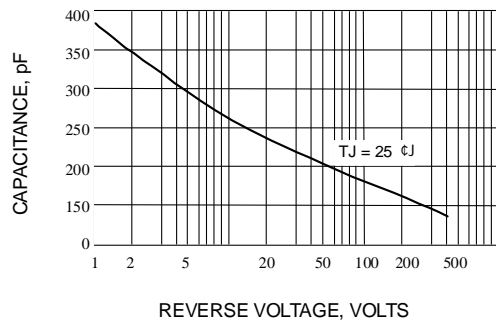


Fig. 5-TYPICAL JUNCTION CAPACITANCE