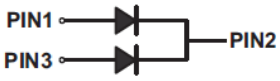
Schottky Barrier Rectifiers

Reverse Voltage - 45 V

Forward Current - 60 A





TO-220F

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250 /10 seconds at terminals

Mechanical Data

- Case : Molded plastic body
- Terminals : Solder plated, solderable per MIL-STD-750,Method 2026
- Polarity : Polarity symbol marking on body
- Mounting Position : Any

Primary Characteristic

I_o	**2*30A**
V_{RRM}	**45V**
I_{FSM}	**250A**
V_F	**0.55V**
T_J Max	**150°C**

Maximum Ratings (Per Leg) at Ta=25°C unless otherwise specified

Parameter		Symbols	Value	Units
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	45	V
Working Peak Reverse Voltage		V_{RW}	31.5	V
Maximum DC Blocking Voltage		V_{DC}	45	V
Maximum Average Forward Rectified Current	per device	I_o	60	A
	per diode		30	
Peak Forward Surge Current, 8.3ms Single Half Sine-wave		I_{FSM}	250	A
Operating Temperature Range		T_J	150	°C
Storage Temperature Range		T_{STG}	-55 ~ +150	°C
Typical thermal resistance		$R_{\theta JC}$	3.5	°C/W

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbols	Value	Units
Maximum instantaneous forward voltage per diode at 30.0A		V_F	0.55	V
Maximum DC reverse current at rated DC blocking voltage	T_A=25°C	I_R	0.5	mA
	T_A=125°C		50	

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