

Dual Schottky Barrier Power Rectifier Reverse Voltage 30 Volts Forward Current 20 Amperes

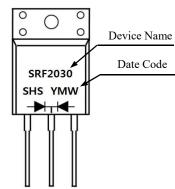
Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

Features

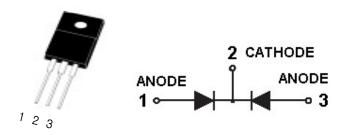
- Low Forward Voltage.
- Low Switching noise.
- High Current Capacity
- Guarantee Reverse Avalanche.
- Guard-Ring for Stress Protection.
- Low Power Loss & High efficiency.
- 150°C Operating Junction Temperature
- Low Stored Charge Majority Carrier Conduction.
- Plastic Material used Carries Underwriters Laboratory

ITO-220AB MILLIMETERS MAX 15.15 D В 13.35 13.45 O‡ C 10 10.1 D 6.55 6.65 Ε 2.65 2.75 1.55 1.65 G 1.25 1.15 Н 0.55 0.65 I 2.6 3.2 K 1.1 1.2 Н L 0.55 0.65 4.4 4.6 N 1.15 1.25 P 2.65 2.75 3.45 3.35 Q 3.15 3.25

Marking



Equivalent Circuit



Maximum Ratings & Electrical Characteristics

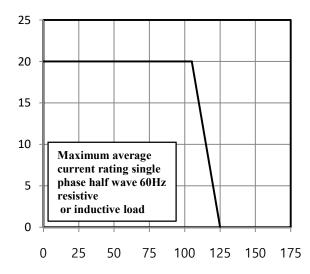
Parameter	Symbol	Rated Value	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	30	V	
Maximum RMS Voltage	V_{RMS}	21	V	
Maximum DC Blocking Voltage	V_{DC}	30	V	
Maximum Average Forward Rectified Current Total Device (Rated V _R)	I _F (AV)	20	A	
Peak Repetitive Forward Current	I_{FM}	20	A	
Peak Forward Surge Current 8.3ms Single Half Sinewave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	250	A	
Maximum Instantaneous Forward Voltage at 10A	V_{F}	0.55	V	Ta=25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.5	mA	Ta=25°C
		50	mA	Ta=100 ℃
Typical Thermal Resistance from Junction to Case	Rth(j-c)	4.0	℃/W	
Typical Junction Capacitance	C_{J}	600	pF	$V_R=4V$, 1MHz
Operation Junction Temperature Range	T_{J}	-55 to +125	°C	
Storage Temperature Range	T_{STG}	-55 to +150	°C	



Average Forward Current(A)

Ratings and Characteristics Curves (Ta=25°C unless otherwise noted)





Ambient Temperature(°C)

Fig.3 Typical Instantaneous Forward Characteristics

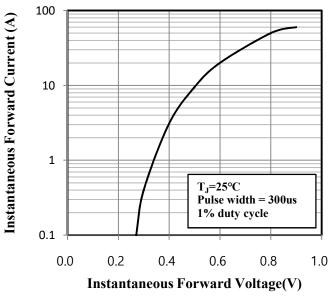


Fig.5 Typical Reverse Charateristics

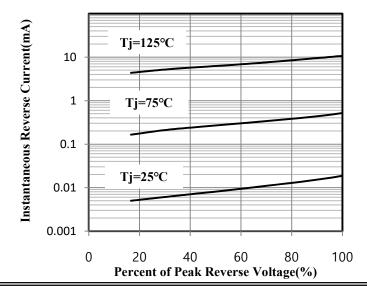


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

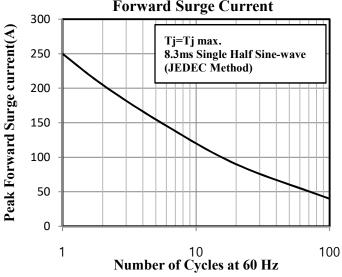


Fig.4 Typical Junction Capacitance

