

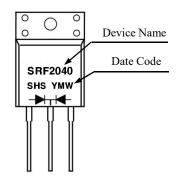
Dual Schottky Barrier Power Rectifier Reverse Voltage 40 Volts Forward Current 20 Amperes

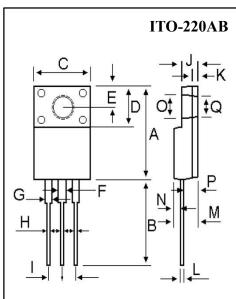
Using the Schottky Barrier principle with a Molybdenum barrier metal. These state-of-the-art geometry features epitaxial construction with oxide passivation and metal overlay contact. Ideally suited for low voltage, high frequency rectification, or as free wheeling and polarity protection diodes.

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

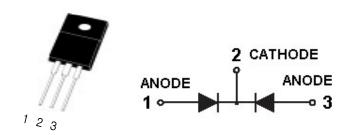
Marking





DIM	MILLIMETERS		
	MIN	MAX	
A	15.05	15.15	
В	13.35	13.45	
С	10	10.1	
D	6.55	6.65	
E	2.65	2.75	
F	1.55	1.65	
G	1.15	1.25	
H	0.55	0.65	
I	2.5	2.6	
J	3	3.2	
K	1.1	1.2	
L	0.55	0.65	
M	4.4	4.6	
N	1.15	1.25	
P	2.65	2.75	
0	3.35	3.45	
Q	3.15	3.25	

Equivalent Circuit



Maximum Ratings & Electrical Characteristics

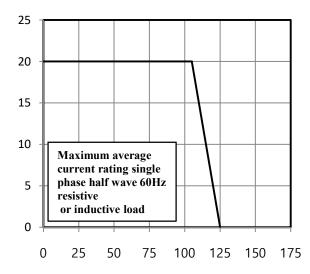
Parameter	Symbol	Rated Value	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V	
Maximum RMS Voltage	V_{RMS}	28	V	
Maximum DC Blocking Voltage	V_{DC}	40	V	
$\begin{array}{c} \text{Maximum Average Forward Rectified Current Total} \\ \text{Device (Rated } V_R) \end{array}$	I _F (AV)	20	A	
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	I _R	0.5	mA	Ta=25°C
at Rated DC Blocking Voltage		50	mA	Ta=100 °C
Typical Thermal Resistance from Junction to Case	Rth(j-c)	4.0	°C/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

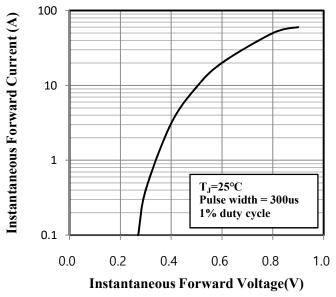


Fig.5 Typical Reverse Charateristics

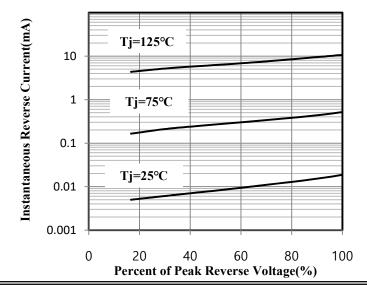


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

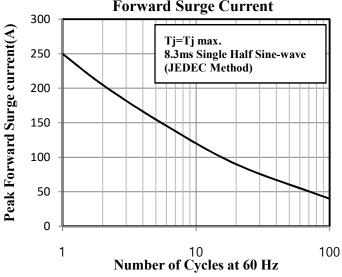


Fig.4 Typical Junction Capacitance

