Dual Schottky Barrier Power Rectifier
Reverse Voltage 90 Volts Forward Current 10 Amperes

Using the Schottky Barrier principle with a Refractory metal capable of high temperature operation metal. The proprietary barrier technology allows for reliable operation up to 175℃ junction temperature. Typical application are in switching Mode Power Supplies such as adaptors, DC/DC converters, free-wheeling and polarity protection diodes.

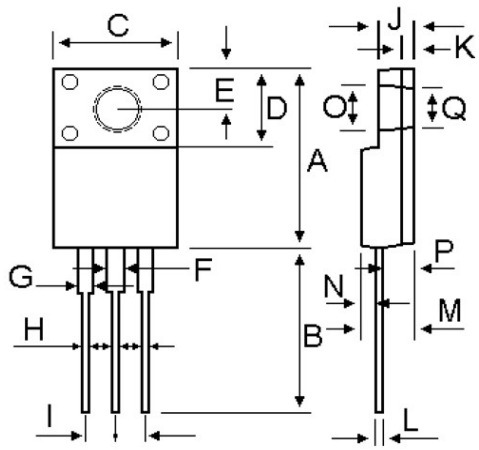
Features

- Low Forward Voltage.
- Low Switching noise.
- High Current Capacity
- Guarantee Reverse Avalanche.
- Guard-Ring for Stress Protection.
- Low Power Loss & High efficiency.
- 175℃ Operating Junction Temperature
- Low Stored Charge Majority Carrier Conduction.
- Plastic Material used Carries Underwriters Laboratory Flammability Classification 94V-O

Mecnanical Data

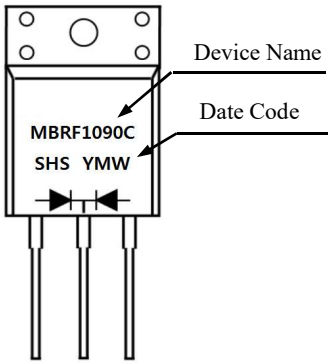
- Case :JEDEC ITO-220AB molded plastic body
- Termals:Plated lead,solderable per MIL-STD-750, Method 2026
- Polarity:As marked
- Mounting Torqure: 4-6kg.cm
- Weight :2.24 g (approx.)

ITO-220AB

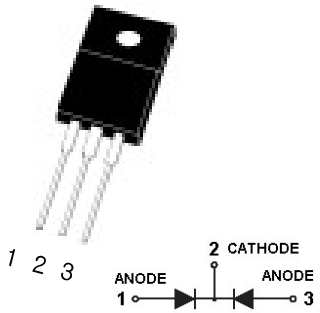


DIM	MILLIMETERS	
	MIN	MAX
A	15.05	15.15
B	13.35	13.45
C	10	10.1
D	6.55	6.65
E	2.65	2.75
F	1.15	1.25
G	1.15	1.25
H	0.55	0.65
I	2.5	2.6
J	3	3.2
K	1.1	1.2
L	0.55	0.65
M	4.4	4.6
N	1.15	1.25
P	2.65	2.75
O	3.35	3.45
Q	3.15	3.25

Marking



Equivalent Circuit



Maximum Ratings & Electrical Characteristics

Parameter	Symbol	Rated Value	Unit	Remark
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	90	V	
Maximum RMS Voltage	V_{RMS}	63	V	
Maximum DC Blocking Voltage	V_{DC}	90	V	
Maximum Average Forward Rectified Current (Rated V_R)	$I_F(AV)$	5.0	A	Per Diode
		10		Total Device
Peak Repetitive Forward Current	I_{FM}	10	A	
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	125	A	
Maximum Instantaneous Forward Voltage at 5.0A	V_F	0.85	V	Ta=25℃
	V_F	0.75	V	Ta=125℃
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	0.1	mA	Ta=25℃
		10	mA	Ta=125℃
Typical Thermal Resistance Junction to Case	Rth(j-c)	3.8	℃/W	
Operation Junction Temperature Range	T_J	-65 to +175	℃	
Storage Temperature Range	T_{STG}	-65 to +175	℃	

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

Fig.1 Forward Current Derating Curve

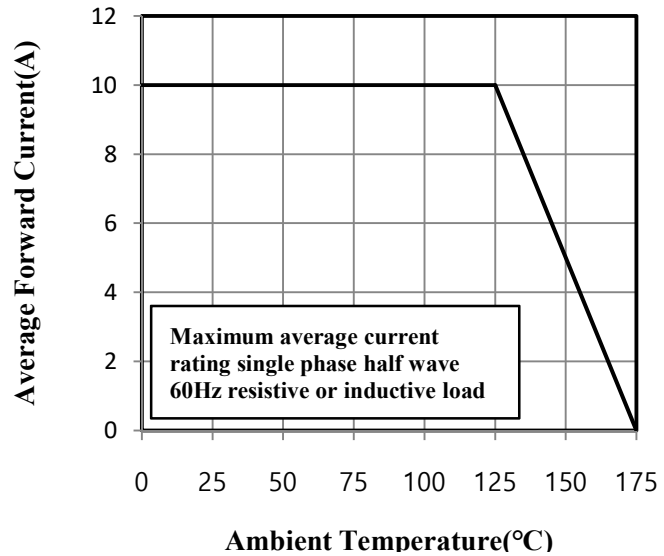


Fig.2 Maximum Non-Repetitive Peak Forward Surge Current

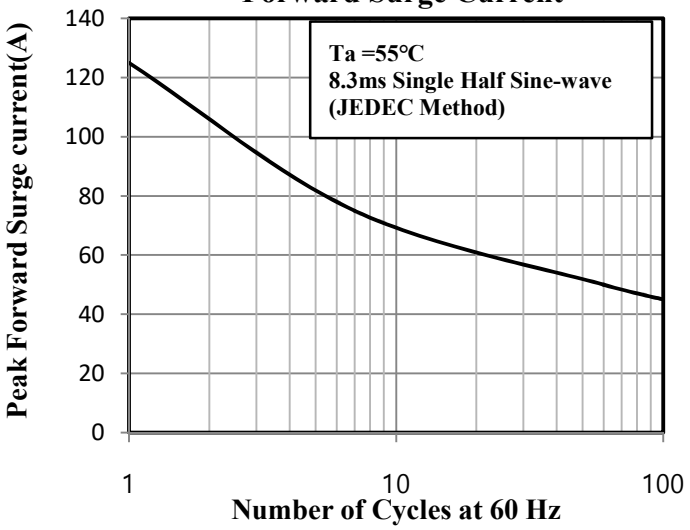


Fig.3 Typical Instantaneous Forward Characteristics

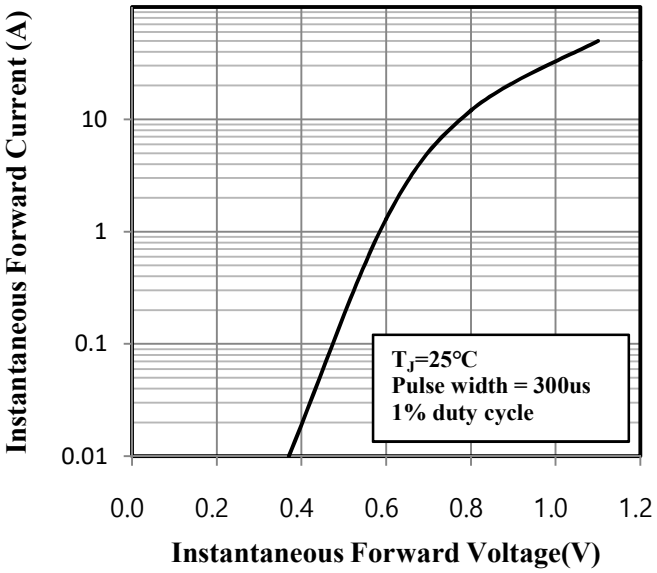


Fig.4 Typical Junction Capacitance

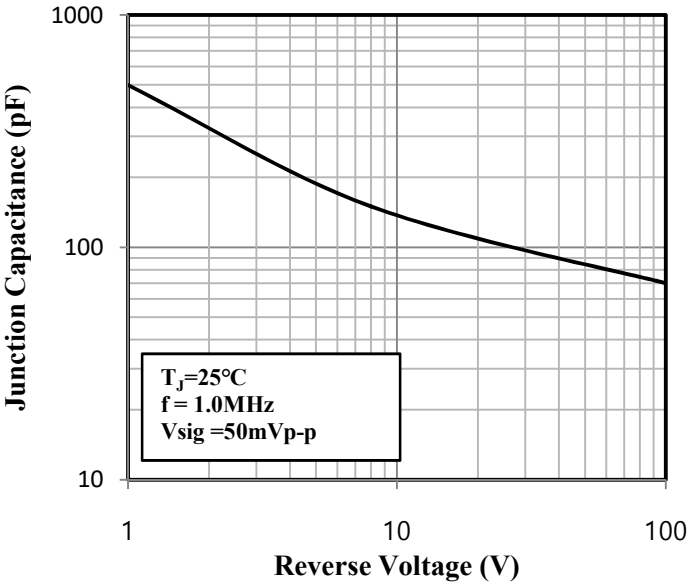


Fig.5 Typical Reverse Charateristics