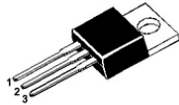
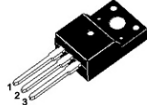


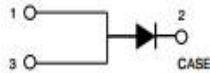
LOW VF SCHOTTKY RECTIFIER



TO-220AB/MBR



ITO-220/MBRF



Pb Lead Free Package and Finish

FEATURES

- Low forward voltage
- High current capability
- High forward surge capability
- Low power losses, High efficiency
- Guarding for over voltage protection

APPLICATIONS

Low VF Schottky barrier rectifier are designed for high frequency, miniature switched mode power supplies such as adapters ,lighting and on-board DC/DC conerters

Primary Characteristic

I_O	10A
V_{RRM}	150V
I_{FSM}	160A
V_F	0.67V
T_{Jmax}	150°C

MECHANICAL DATA

- **Case:** Molded plastic
- **Polarity:** As marked
- **Mounting Position:** Any
- **Molded Plastic:** UL Flammability Classification Rating 94V-0
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Solder bath temperature 275°C maximum, 10s per JESD 22-B106

Maximum Ratings at Ta=25°C unless otherwise specified

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	150	V
Working Peak Reverse Voltage	V_{RWM}	150	V
Maximum DC Blocking Voltage	V_{DC}	150	V
Maximum Average Forward Rectified Current	I_O	10	A
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave	I_{FSM}	160	A
Operating Temperature Range	T_J	-50 to +150	°C
Storage Temperature Range	T_{STG}	-50 to +150	°C
Typical Thermal Resistance (Note1)	$R_{\theta JC}$	2	°C/W
TO-220AB		4	
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Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics unless otherwise specified

Characteristics	Symbol	Value	Unit
Forward Voltage Drop(Note2)		Typ. Max.	
at $I_F=3A$	V_F	0.64	-
TA=25°C		0.53	-
TA=125°C		0.71	0.78
at $I_F=5A$		0.58	-
TA=25°C		0.81	0.96
TA=125°C		0.67	-
at $I_F=10A$	I_R	1.5	5
Maximum Reverse Current at $V_R=150V$		1.5	-
TA=25°C			μA
TA=125°C			mA

Note2:Pulse test: 300 μs pulse width, 1 % duty cycle

RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

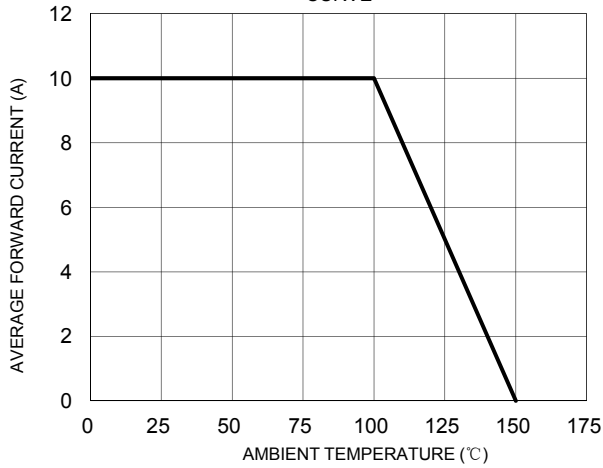


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

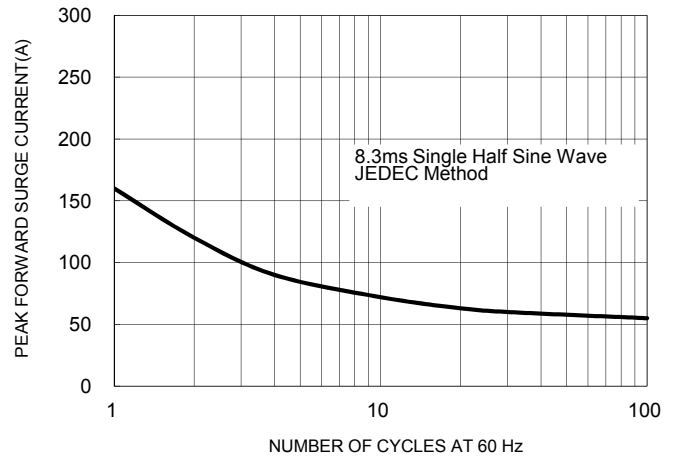


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

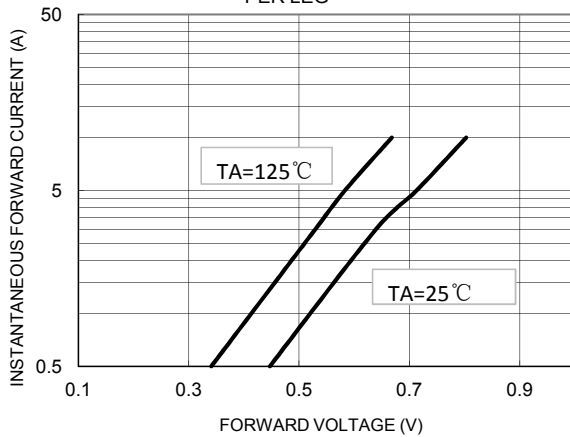
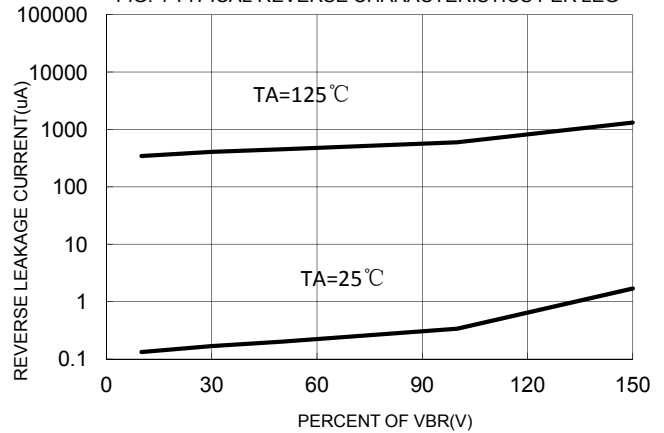
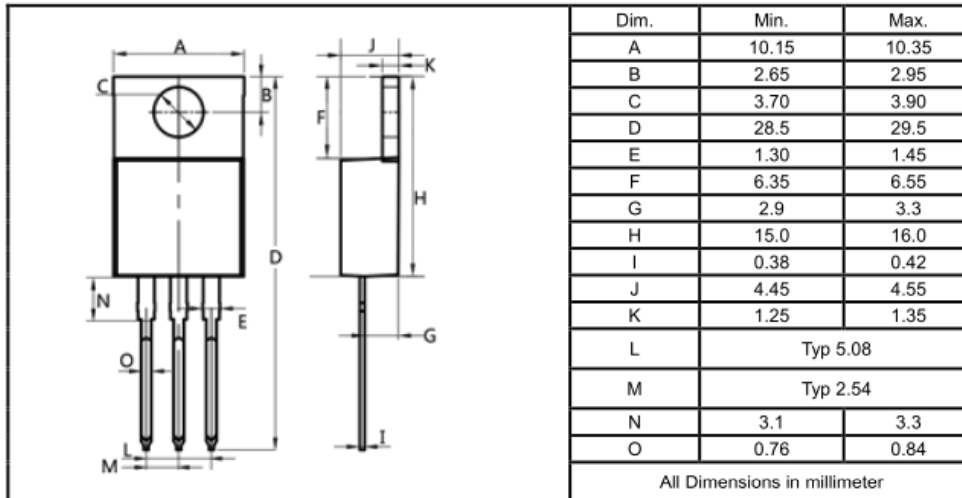


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

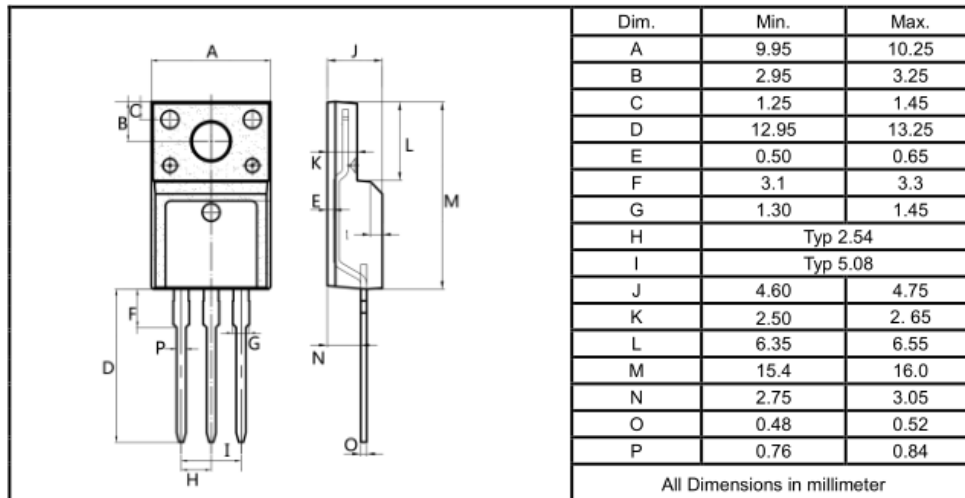


Package Outline Dimensions millimeters

TO-220AB



ITO-220



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