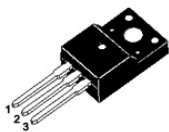
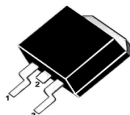


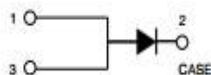
TO-220AB/SCT



TO-220F/SFCT



TO-263/SDC



FEATURES

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

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}	300V
I_{FSM}	250A
V_F	0.71
T_{jmax}	175℃
Assembly code	ER

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℃ maximum,10s per JESD 22-B106

Maximum Ratings at Ta=25℃ unless otherwise specified

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	300	V
Working Peak Reverse Voltage	V_{RWM}	300	V
Maximum DC Blocking Voltage	V_{DC}	300	V
Maximum Average Forward Rectified Current	I_O	10	A
Peak Forward Surge Current,8.3 ms Single Half Sine-wave	I_{FSM}	250	A
Operating Temperature Range	T_J	-50 to +175	℃
Storage Temperature Range	T_{STG}	-50 to +175	℃
Typical Thermal Resistance (Note1) TO-220AB,TO-263 TO-220F	$R_{\theta JC}$	2 4	℃/W

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	0.74	-
		0.60	-
		0.78	0.89
		0.64	-
		0.84	0.95
		0.71	-
Maximum Reverse Current at $V_R=300V$	I_R	0.02	μA
		0.05	mA

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

RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

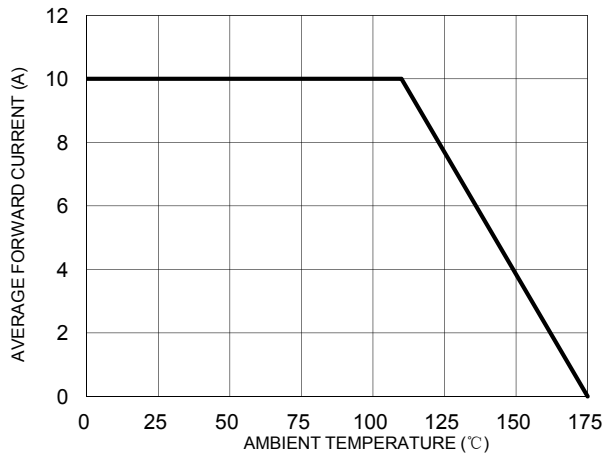


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

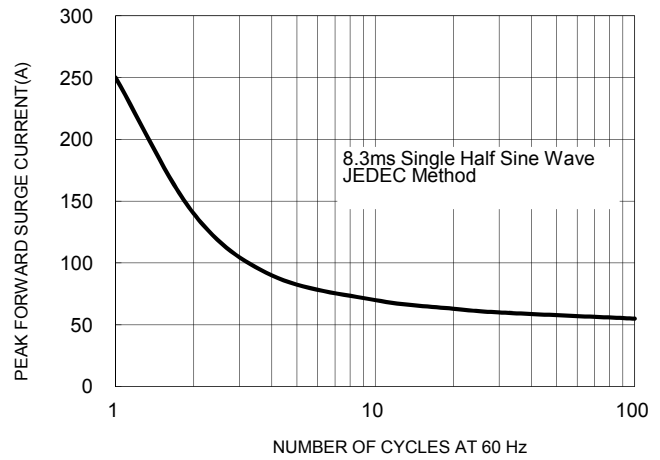


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

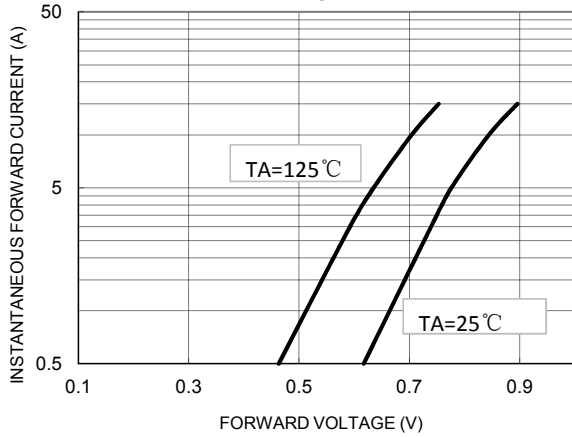
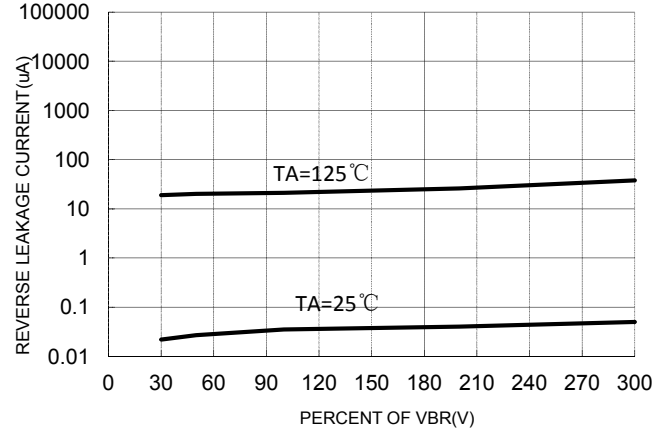
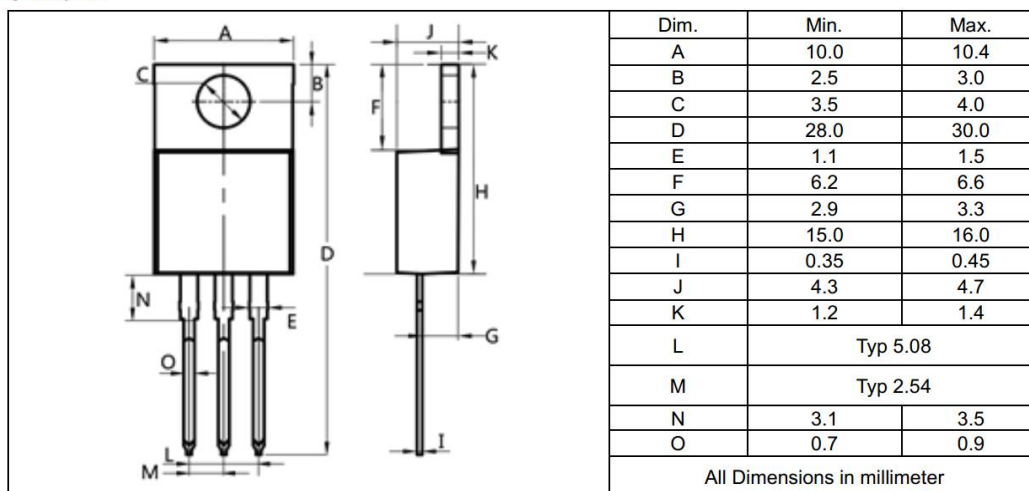


FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG

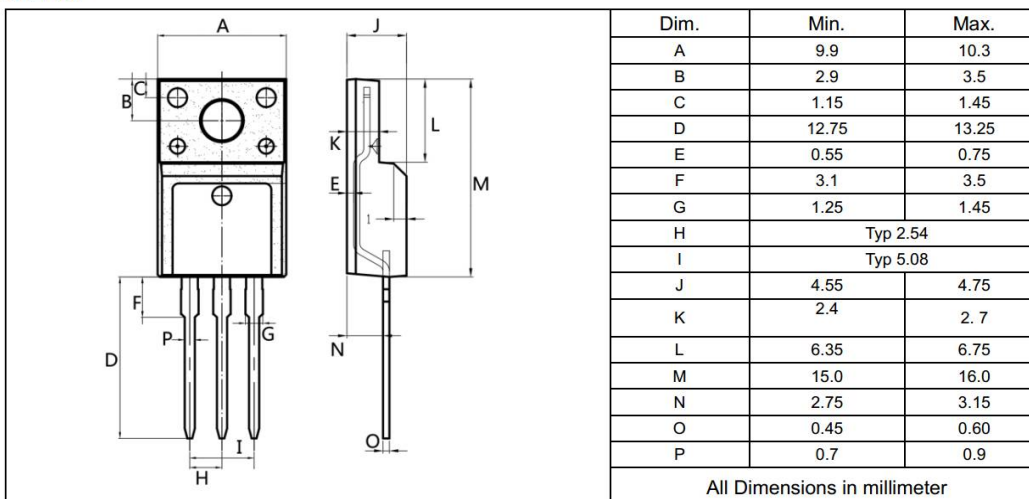


Package Outline Dimensions millimeters

TO-220AB



TO-220F



TO-263

