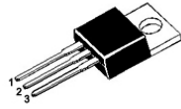
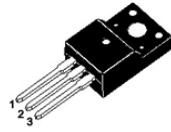


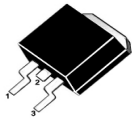
LOW VF SCHOTTKY RECTIFIER



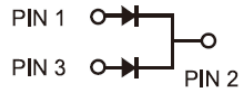
TO-220AB/MBR



TO-220F/MBRF



TO-263/MBRS



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	2*10A
V_{RRM}	200V
I_{FSM}	160A
V_F	0.70V
T_{Jmax}	175°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 (Per Leg) at Ta=25°C unless otherwise specified

Characteristics	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	200	V
Working Peak Reverse Voltage	V_{RWM}	200	V
Maximum DC Blocking Voltage	V_{DC}	200	V
Maximum Average Forward Rectified Current	Per Leg	10	A
	Total	20	
Peak Forward Surge Current,8.3 ms Single Half Sine-wave	I_{FSM}	160	A
Operating Temperature Range	T_J	-50 to +175	°C
Storage Temperature Range	T_{STG}	-50 to +175	°C
Typical Thermal Resistance (Note1)	$R_{\theta JC}$	2	°C/W
TO-220AB,TO-263 ITO-220		4	

Note1: Thermal resistance from Junction to case per leg mounted on heatsink.

Electrical Characteristics (Per Leg) unless otherwise specified

Characteristics		Symbol	Value		Unit
Forward Voltage Drop(Note2)		V _F	Typ.	Max.	V
at I _F =3A	TA=25°C		0.72	-	
	TA=125°C		0.57	-	
at I _F =5A	TA=25°C		0.77	0.82	
	TA=125°C		0.62	-	
at I _F =10A	TA=25°C		0.84	0.89	
	TA=125°C		0.70	-	
Maximum Reverse Current at V _R =200V	TA=25°C	I _R	1	2	μA
	TA=125°C		0.3	-	mA

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

LOW VF SCHOTTKY RECTIFIER

RATINGS AND CHARACTERISTIC CURVES

FIG.1 MAXIMUM FORWARD CURRENT DERATING CURVE

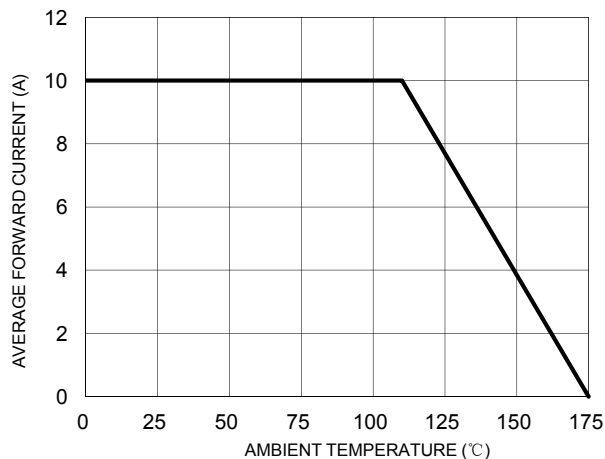


FIG. 2 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER LEG

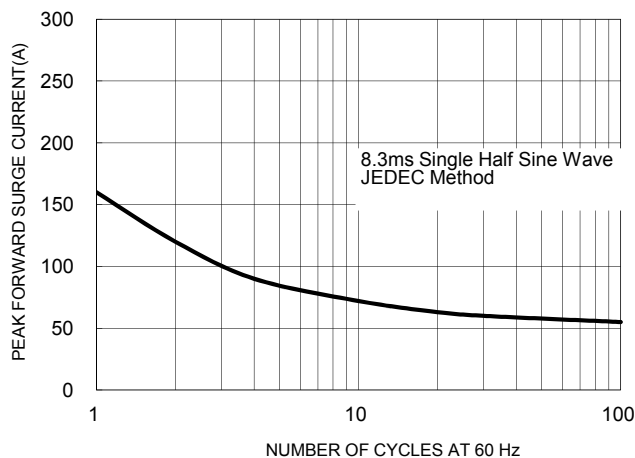


FIG. 3 TYPICAL FORWARD CHARACTERISTICS PER LEG

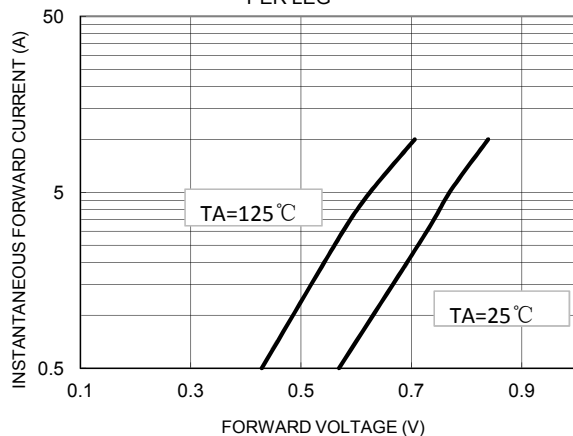
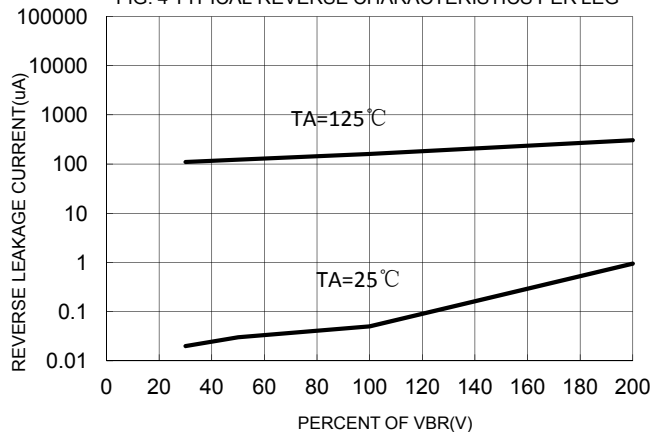


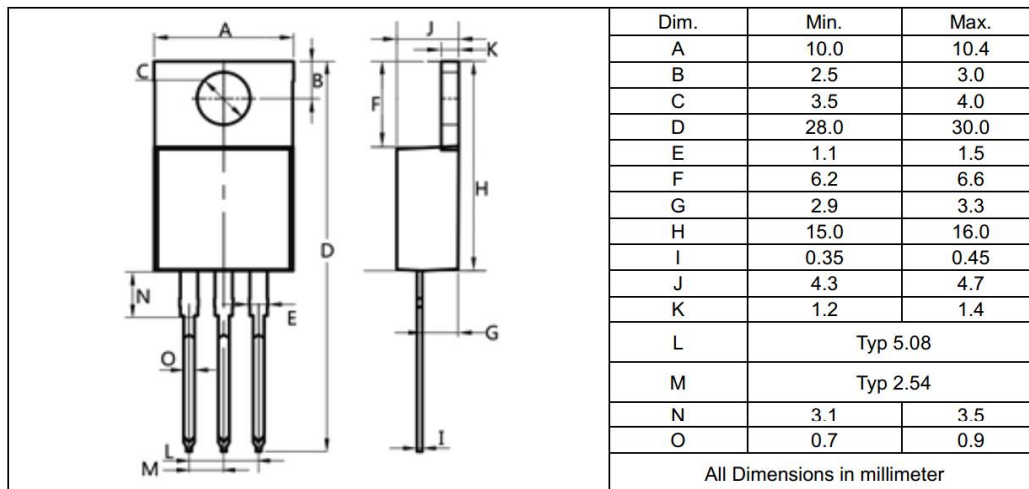
FIG. 4 TYPICAL REVERSE CHARACTERISTICS PER LEG



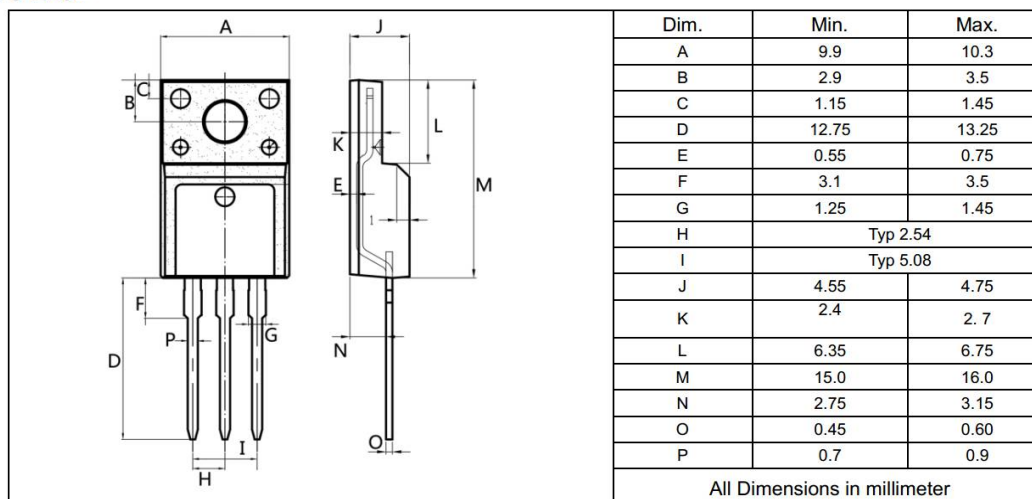
LOW VF SCHOTTKY RECTIFIER

Package Outline Dimensions millimeters

TO-220AB



TO-220



TO-263

