

TO-220 Plastic-Encapsulate Diodes

Schottky Rectifier

Features

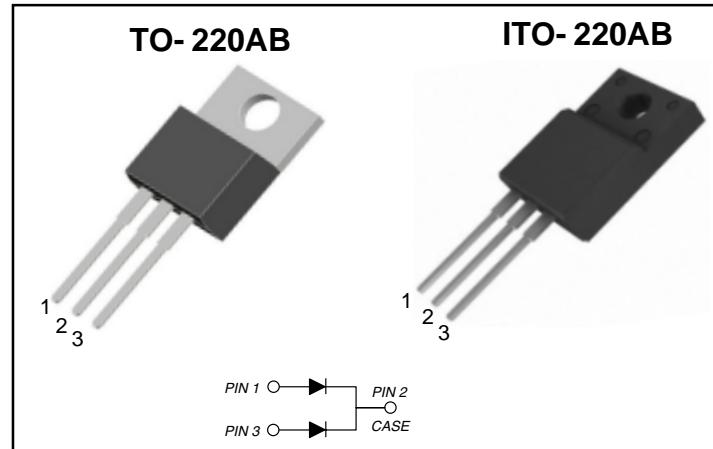
- I_O 20A
- VRM 300V
- High surge current capability
- Low V_f

Applications

- Rectifier

Marking

- MBR20300L(F)CT



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	MBR20300L(F)CT
Repetitive Peak Reverse Voltage	V_{RRM}	V		300
Average Rectified Output Current	I_O	A	60HZ Half-sine wave, Resistance load, T_c (Fig.1)	20.0
Surge(Non-repetitive)Forward Current	I_{FSM}	A	60Hz Half-sine wave ,1 cycle , $T_a = 25^\circ C$	200
Junction Temperature	T_J	°C		-55~+150
Storage Temperature	T_{STG}	°C		-55 ~ +150

Electrical Characteristics ($T_a=25^\circ C$ Unless otherwise specified)

Item	Symbol	Unit	Test Condition	MBR20300L(F)CT
Peak Forward Voltage	V_F	V	$I_F=10.0A$	0.89
Peak Reverse Current	I_{RRM1}	mA	$V_{RM}=V_{RRM}$	0.1
	I_{RRM2}			5
Thermal Resistance(Typical)	$R_{\theta J-C}$	°C/W	Between junction and case	3.0 ¹⁾

Notes:

Thermal resistance from junction to case per leg with heat-sink size of 2"×3"×0.25" AL-plate

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

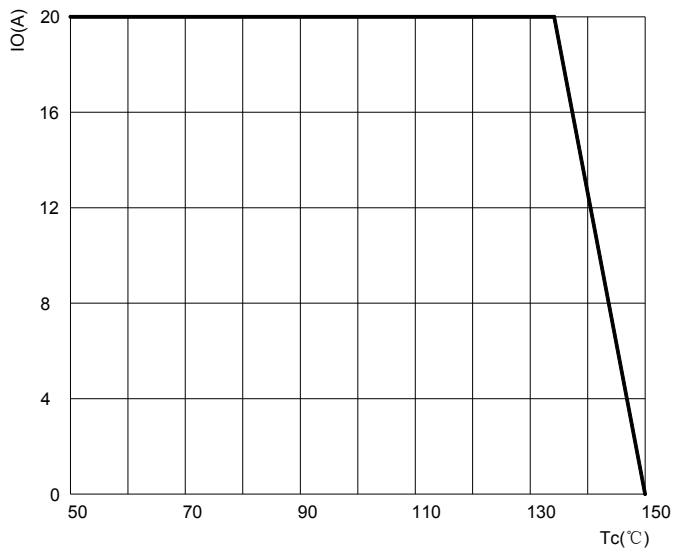


FIG.2: Surge Forward Current Capability

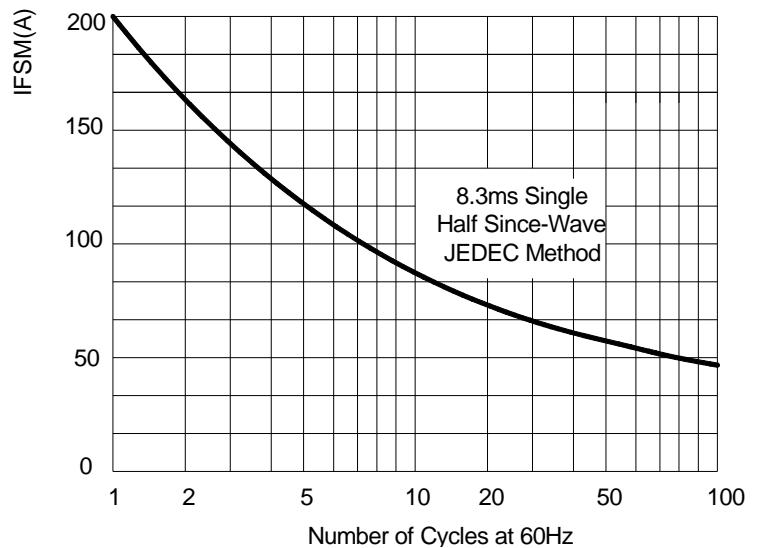


FIG.3: Instantaneous Forward Voltage

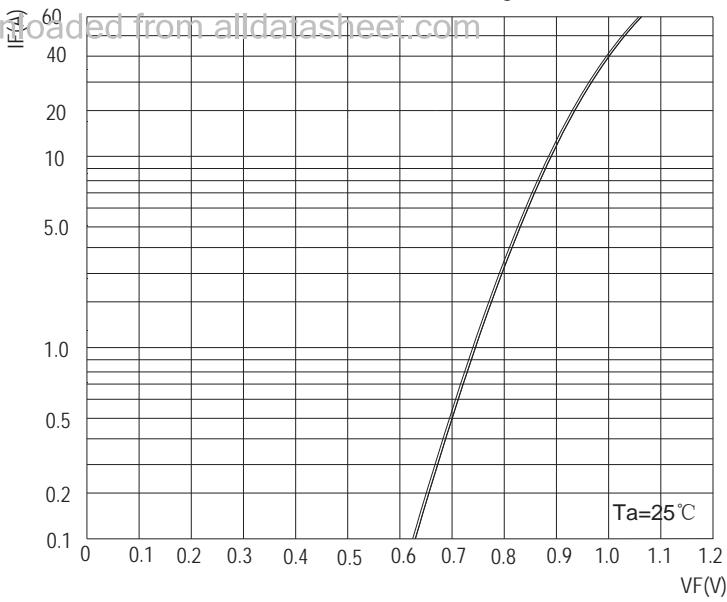
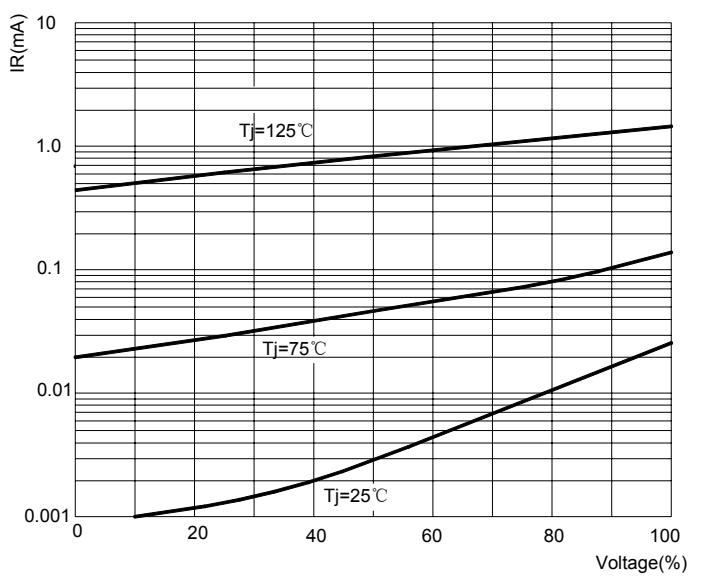
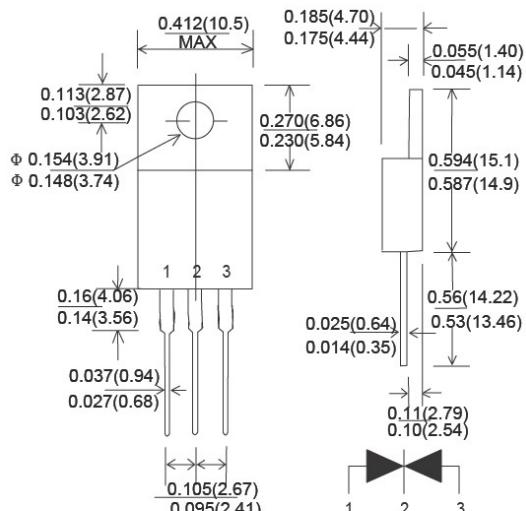


FIG.4: TYPICAL REVERSE CHARACTERISTICS



TO- 220 Package Outline Dimensions

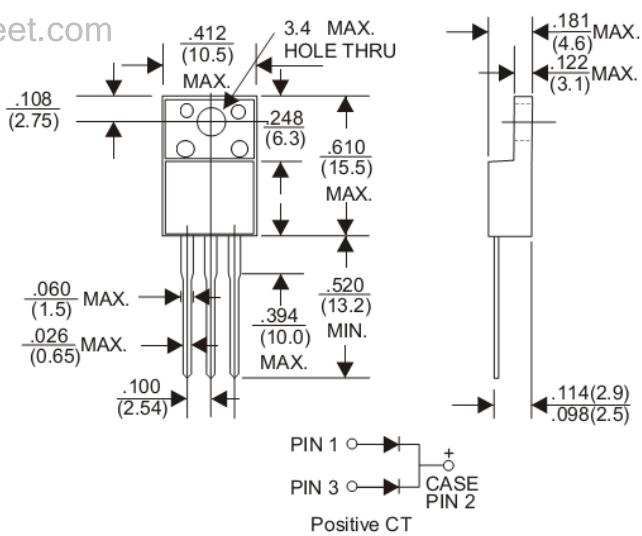
TO-220AB



Unit : inch (mm)

ITO-220AB

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Dimensions in inches and (millimeters)

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