

TO-252-2L Plastic-Encapsulate Diodes

Schottky Rectifier

Features

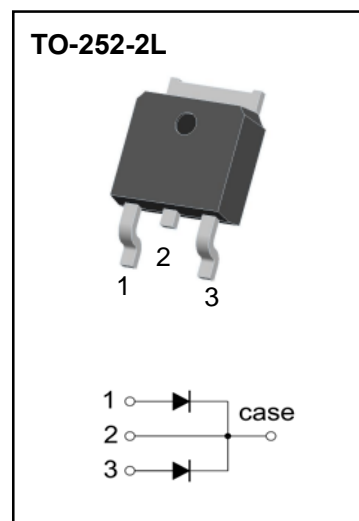
- I_o 20A
- V_{RRM} 150V
- High surge current capability

Applications

- Rectifier

Marking

- MBRD20150CT



Limiting Values (Absolute Maximum Rating)

Item	Symbol	Unit	Test Conditions	MBRD20150CT
Repetitive Peak Reverse Voltage	V_{RRM}	V		150
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 , $T_a = 25^\circ\text{C}$	180
Junction Temperature	T_J	$^\circ\text{C}$		-55~+150
Storage Temperature	T_{STG}	$^\circ\text{C}$		-55 ~ +150

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

Item	Symbol	Unit	Test Condition	MBRD20150CT	
Peak Forward Voltage	V_F	V	$I_F = 10.0\text{A}$	0.86	
Peak Reverse Current	I_{RRM1}	mA	$V_{RM} = V_{RRM}$	$T_a = 25^\circ\text{C}$	0.05
	I_{RRM2}			$T_a = 125^\circ\text{C}$	1.5
Thermal Resistance(Typical)	$R_{\theta J-C}$	$^\circ\text{C}/\text{W}$	Between junction and case	2.0	
Typical total capacitance	C_{tot}	pF	$V_R = 4\text{V}, f = 1\text{MHz}$	100	

Typical Characteristics

FIG.1: FORWARD CURRENT DERATING CURVE

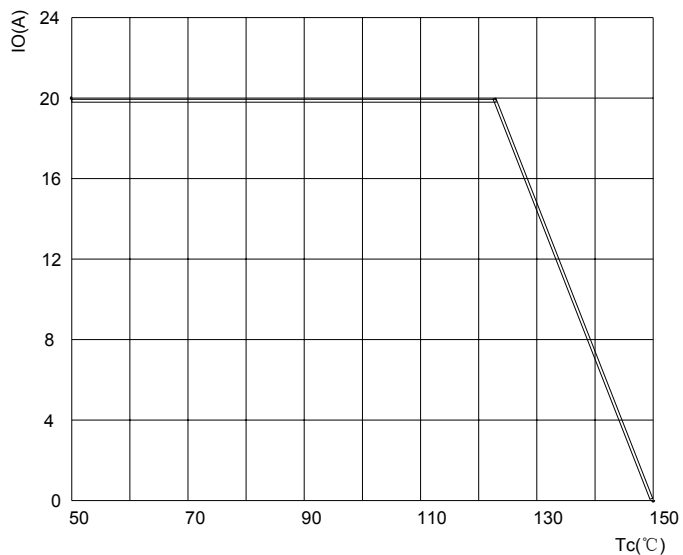


FIG.2: MAXIMUM NON-REPETITIVE FORWARD URGE CURRENT

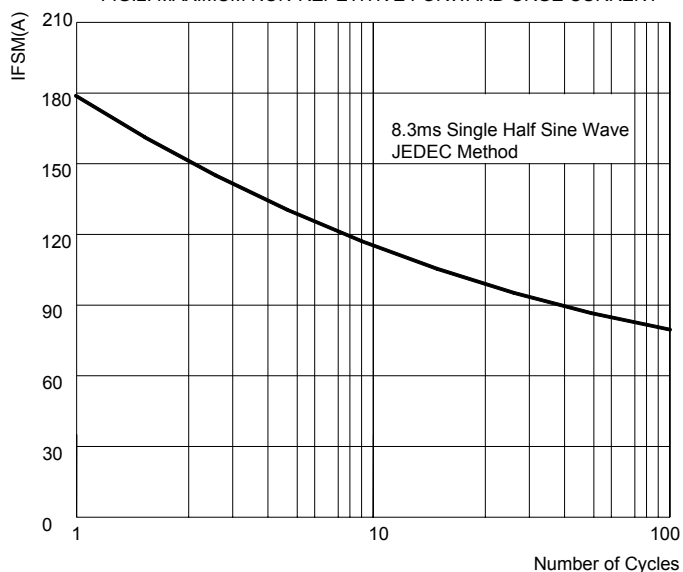


FIG3: Instantaneous Forward Voltage

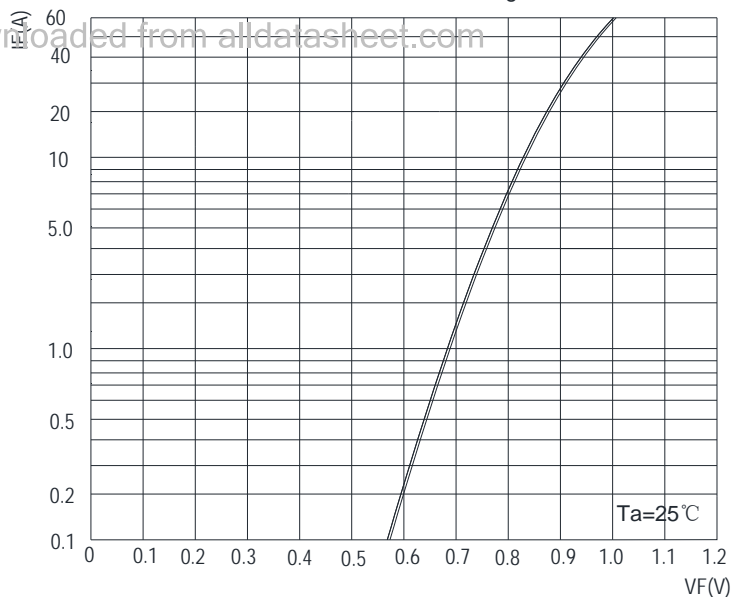
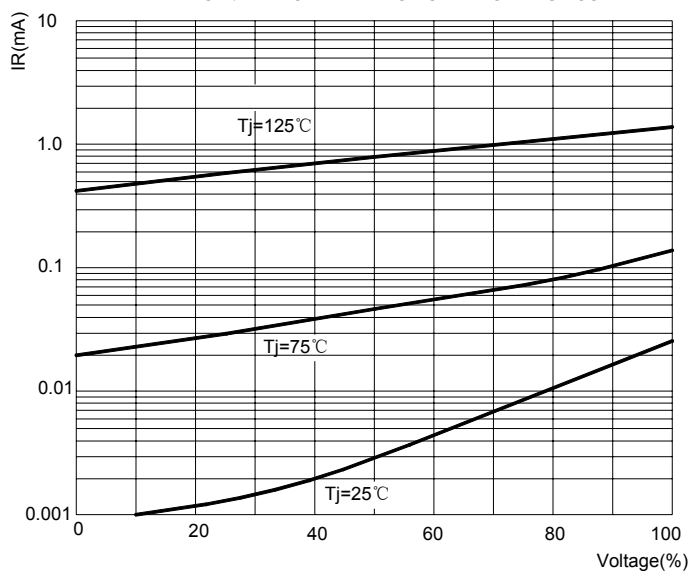
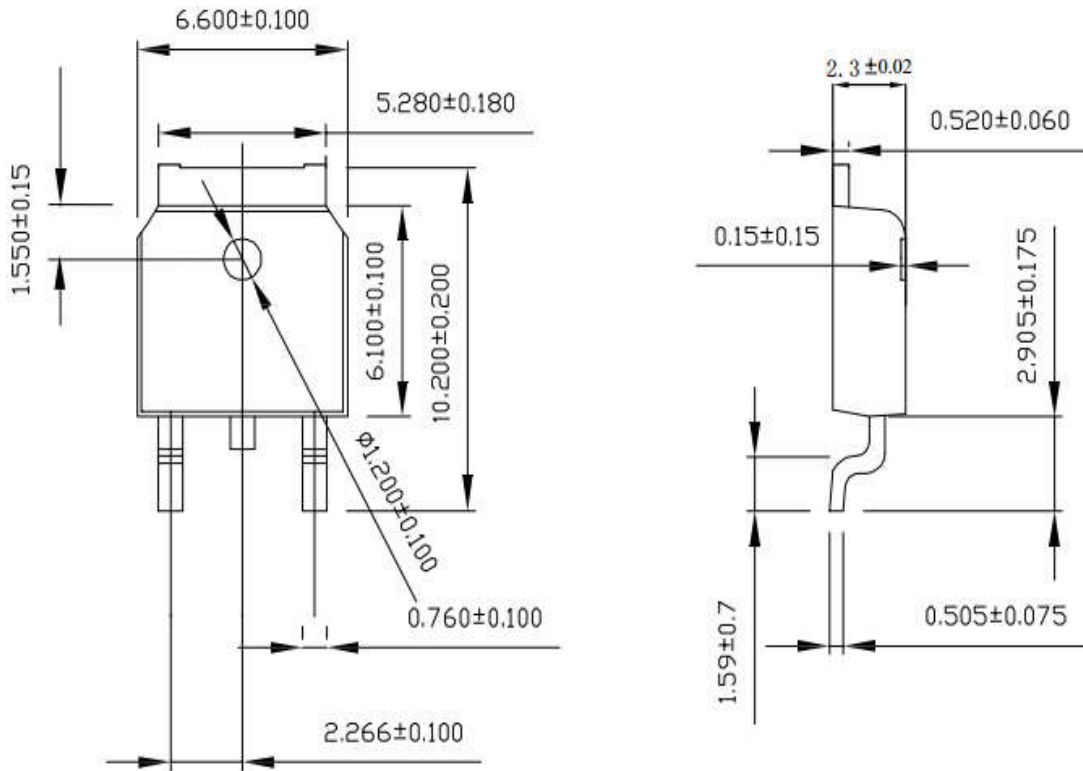


FIG.4: TYPICAL REVERSE CHARACTERISTICS

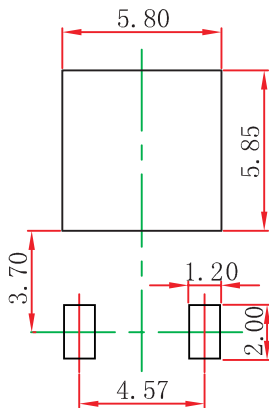


TO-252-2L Package Outline Dimensions



Downloaded from alldatasheet.com

TO-252-2L Suggested Pad Layout



Note:

1. Controlling dimension: in millimeters.
2. General tolerance: $\pm 0.05\text{mm}$.
3. The pad layout is for reference purposes only.

NOTICE

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