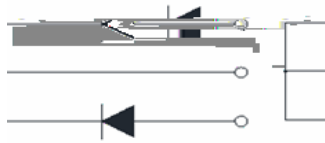
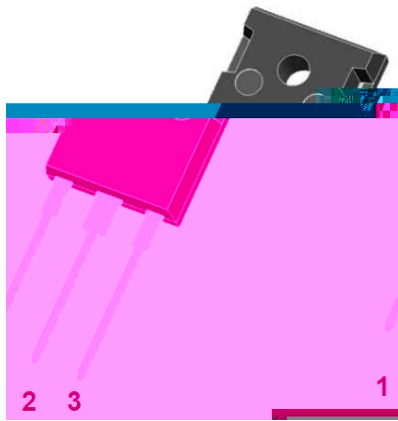


## Schottky Diodes



### Features

- High frequency operation
- Low forward voltage drop
- High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- Gu in plated leads, solderable per

J-STD-002 and JESD22-B102

**Polarity:** As marked

### Maximum Ratings ( $T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	MBR40150PT
Device marking code			MBR40150PT
Repetitive Peak Reverse Voltage	$V_{RRM}$	V	150
Average Rectified Output Current @60Hz sine wave, R-load, $T_c=141$	$I_o$	A	40
Surge(Non-repetitive)Forward Current @60Hz half sine-wave, 1 cycle, $T_a=25$	$I_{FSM}$	A	300
Current Squared Time @1ms t 8.3ms $T_j=25$	$I^2t$	A <sup>2</sup> s	373
Storage Temperature	$T_{stg}$		-55 ~ +175
Junction Temperature	$T_j$		-55 ~ +175

### Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	$V_{FM}$	V	$I_{FM}=20.0A$ $T_j=25$	0.5	0.815	0.85
			$I_{FM}=20.0A$ $T_j=125$	-	0.68	0.72
DC reverse current at rated DC blocking voltage per diode	$I_{RRM1}$	mA	$V_{RM}=V_{RRM}$ $T_j=25$	-	-	0.1
	$I_{RRM2}$		$V_{RM}=V_{RRM}$ $T_j=125$	-	-	2.0
Junction capacitance	$C_j$	pF	1MHz and Applied Reverse Voltage of 4.0 V.D.C	200	410	650

Note1:Pulse test:300uS pulse width,1% duty cycle

Note2:Pulse test:pulse width 40mS



# MBR40150PT

**Thermal Characteristics**  $T_a=25$  Unless otherwise specified

PARAMETER		SYMBOL	UNIT	MBR40150PT
Thermal Resistance	Between junction and ambient	$R_{J-A}$	/W	50.0
	Between junction and case	$R_{J-C}$	/W	1.0

## Characteristics (Typical)

FIG1:  $I_o - T_c$  Curve

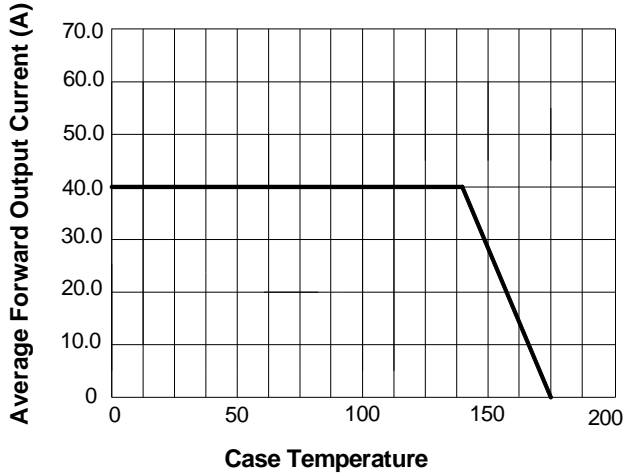


FIG2: Surge Forward Current Capability

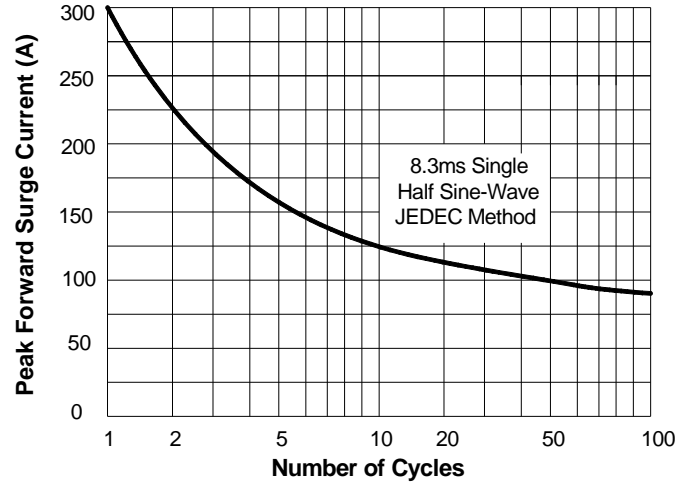


FIG3: Forward Voltage

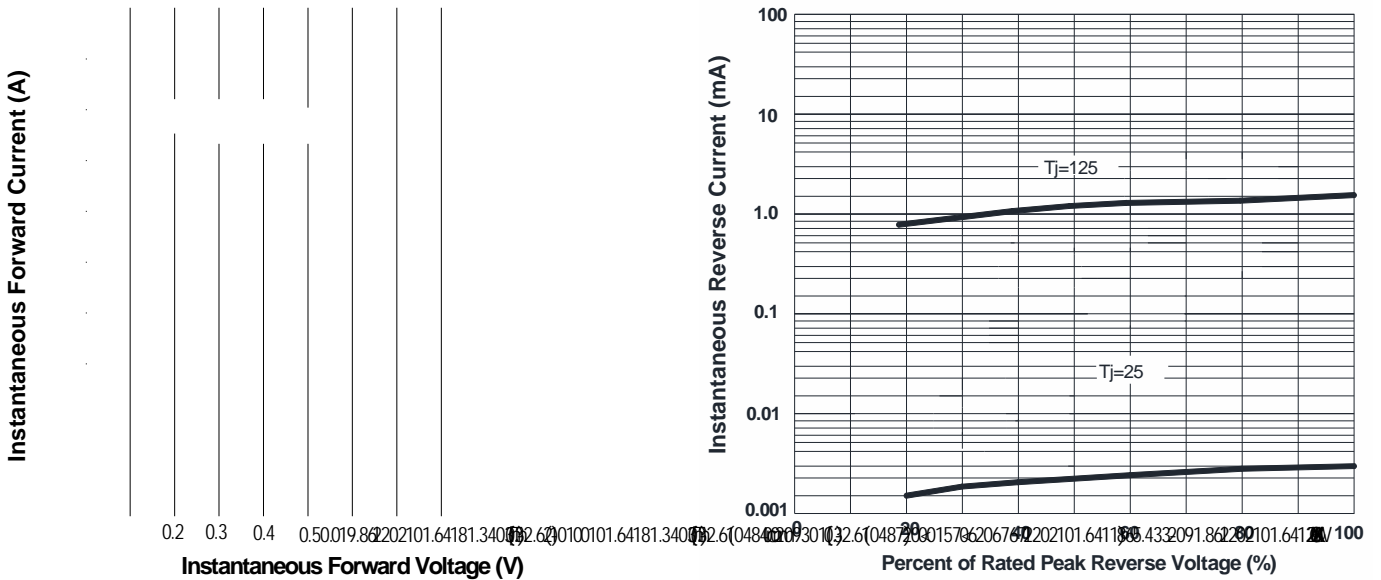
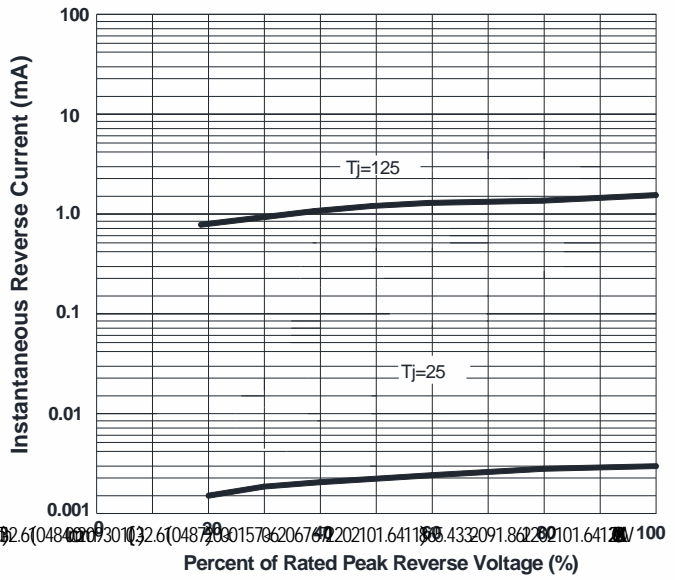


FIG.4: Instantaneous Reverse Characteristics





## Outline Dimensions

TO-247AB		
Dim	Min	Max
A	4.80	5.20



## Disclaimer

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