MBR80150PT

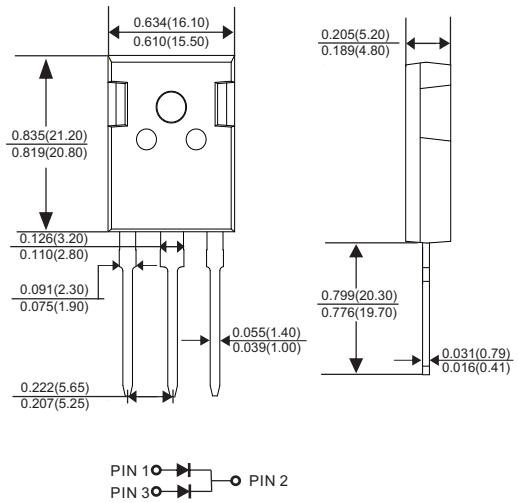
80A Schottky Rectifiers-150V

Features

- Low forward voltage drop
- High purity, high temperature expoxy encapsulation for enhanced mechanical strength and moisture resistance
- High frequency operation
- Guard ring for enhanced ruggedness and long term reliability
- Compliant to Halogen-free

Package outline

TO-247AB



Dimensions in inches and (millimeters)

Mechanical data

- Case : TO-247AB
- Polarity : Polarity symbol marking on body
- Mounting Position : Any

Maximum ratings and Electrical Characteristics (AT T_A=25°C unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	per leg	I_O			40	A
	per device				80	
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I_{FSM}			275	A
Reverse current	$V_R = V_{RRM}$ T_A= 25°C	I_R		0.001	0.1	mA
	$V_R = V_{RRM}$ T_A= 100°C			0.35	20	
Thermal resistance	Junction to case	$R_{\theta JC}$		0.4		°C/W
Storage temperature		T_{STG}	-55		+175	°C

SYMBOLS	V_{RRM} *1 (V)	V_{RMS} *2 (V)	V_R *3 (V)	V_F *4 (V)	Operating temperature T_J, (°C)
MBR80150PT	150	105	150	0.90	-55 to +175

*1 Repetitive peak reverse voltage

*2 RMS voltage

*3 Continuous reverse voltage

*4 Maximum forward voltage
IF = 40 A

Rating and characteristic curves

FIG.1: Typical forward characteristics

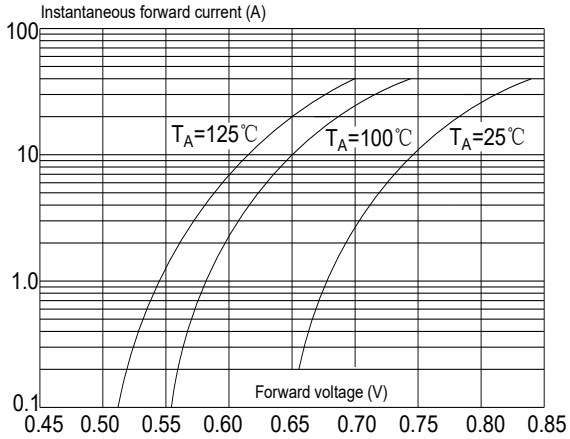


FIG.2: Typical reverse characteristics

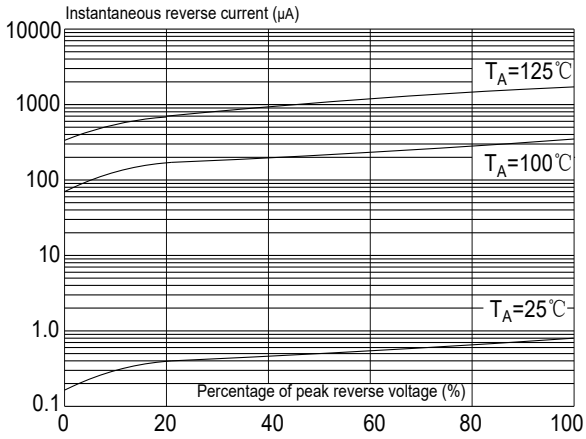


FIG.3: Maximum non-repetitive peak forward surge current

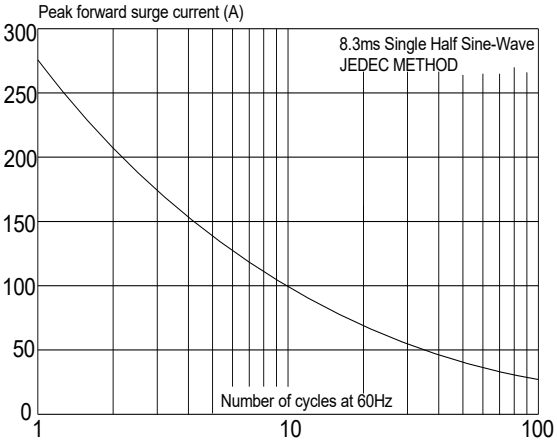
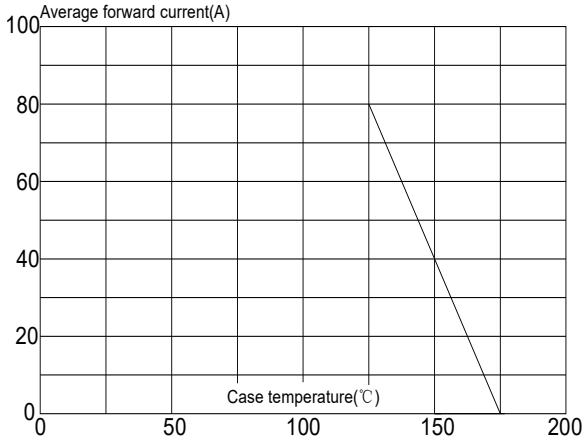
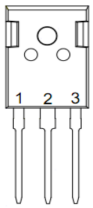
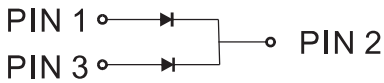


FIG.4: Forward current derating curve



Pinning information

Pin	Simplified outline	Symbol
Pin1 anode Pin2 cathode Pin3 anode		

Marking

Type number	Marking code
MBR80150PT	MBR80150PT