

SMD Schottky Bridge

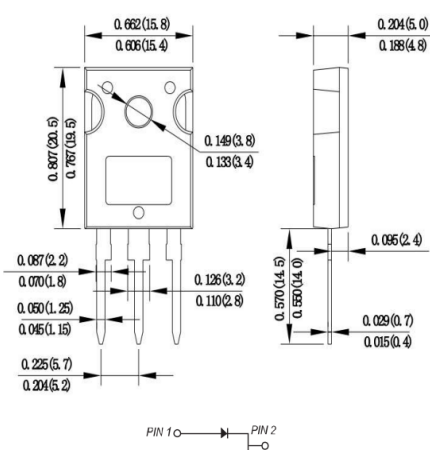
Primary characteristics		
Parameter	Value	Unit
Maximum Repetitive Peak Reverse Voltage	40 ~ 200	V
Maximum Average Forward Rectified Current	40.0	A

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250°C/10 seconds at terminals

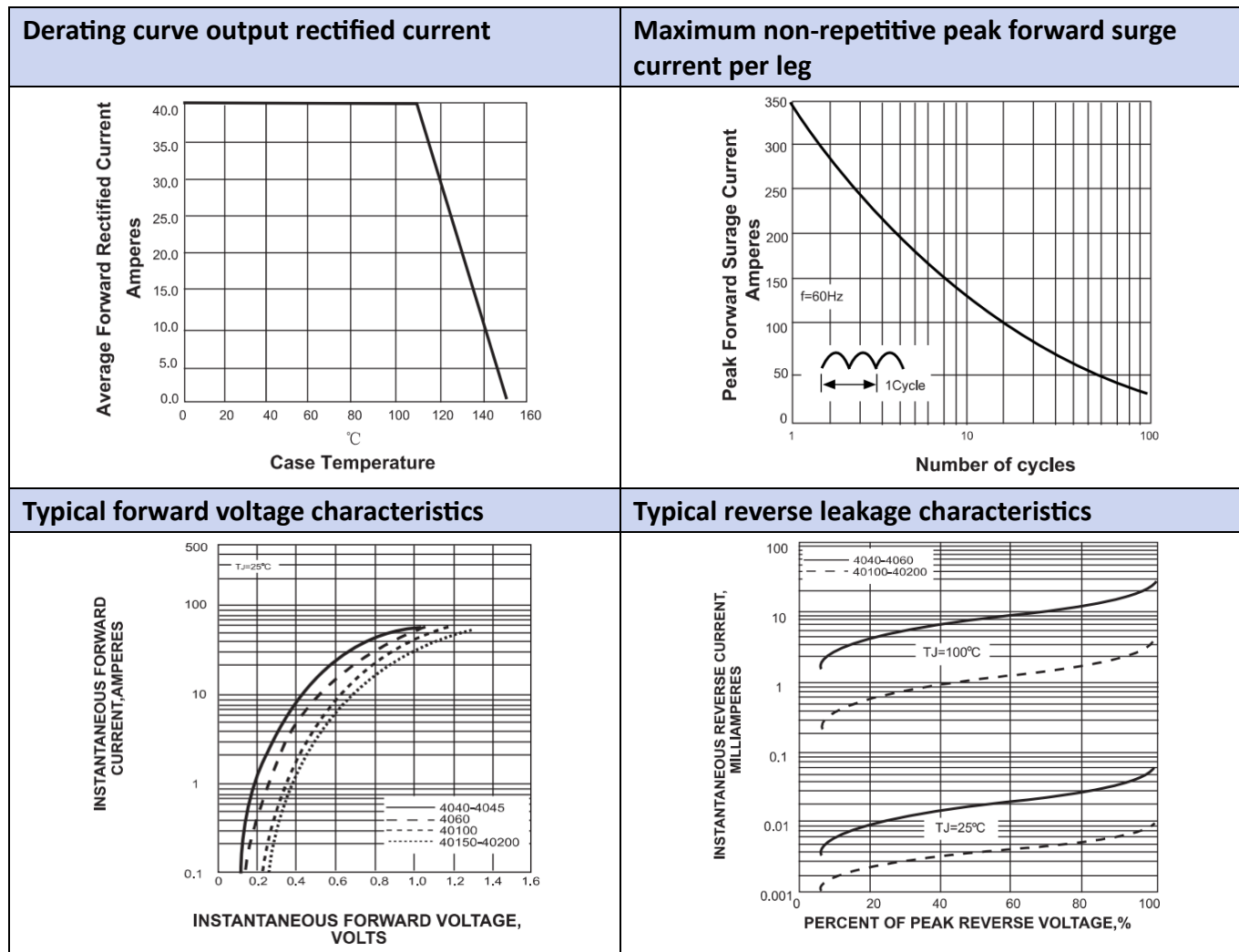
Mechanical Data

- **Case:** Molded plastic body
- **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- **Polarity:** Polarity symbol marking on body
- **Mounting Position:** Any

Case dimensions	
 Dimensions in inches and (millimeters)	
TO-247	

Absolute maximum ratings and general electrical characteristics (T _a = 25°C)										
Parameter		Symbol	Value						Unit	
			MBR 4040PT	MBR 4045PT	MBR 40460PT	MBR 40100PT	MBR 40150PT	MBR 40200PT		
Maximum repetitive peak reverse voltage		V _{RRM}	40	45	60	100	150	200	V	
Maximum RMS voltage		V _{RMS}	28	31.5	42	70	105	140		
Maximum DC blocking voltage		V _{DC}	40	45	60	100	150	200		
Maximum average forward rectified current at T _c =110°C	per device	I _(AV)	40.0						A	
	per diode		20.0							
Peak forward surge current 8.3mS single half sine wave superimposed on rated load		I _{FSM}	350							
Maximum instantaneous forward voltage per diode at 20.0A		V _F	0.65		0.78	0.85	0.95			V
Maximum DC reverse current at rated DC blocking voltage	T _a =25°C	I _R	0.5			0.05				mA
	T _a =100°C		50			10				
Typical thermal resistance		R _{qJC}	2.8						°C/W	
Operating junction temperature range		T _J	-55 ~ 150						°C	
Storage temperature range		T _{STG}	-55 ~ 150						°C	

Ratings And Characteristic Curves



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