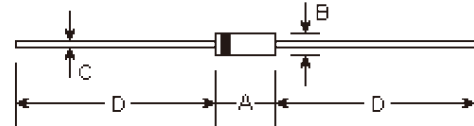


45V 15 Amp Schottky Barrier Rectifier

P-600



Features

- Lead Free Finish/Rohs Compliant
- Low Thermal Resistance
- High Temp Soldering: 260°C for 10 Seconds At Terminals
- Case Material: Molded Plastic.
Classification Rating 94V-0 and MSL rating 1

DIM	DIMENSIONS				Note
	inches		mm		
	Min.	Max.	Min.	Max.	
A	0.338	0.358	8.6	9.1	
B	0.338	0.358	8.6	9.1	ϕ
C	0.047	0.051	1.2	1.3	ϕ
D	1.0	-	25.4	-	

Maximum Ratings and Electrical Characteristics

Parameter	Symbol	SB1545	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	45	Volts
Maximum RMS voltage	V_{RMS}	31.5	Volts
Maximum DC blocking voltage	V_{DC}	45	Volts
Maximum average forward rectified current @ $T_A=50^\circ C$	$I_{F(AV)}$	15.0	Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rates load (JEDEC Method)	I_{FSM}	350.0	Amps
Maximum forward voltage at 5.0 / 15.0 ADC	VF	0.45 / 0.5	Volts
Maximum DC reverse current at rated DC blocking voltage @ $T_J=25^\circ C, T_J=100^\circ C$	IR	0.5 , 50	uA
Typical thermal resistance	$R_{\theta JA}$	12.0	$^\circ C/W$
Operating junction temperature range	T_j	-55 to +150	$^\circ C$
storage temperature range	T_{STG}	-55 to +175	$^\circ C$

Figure 1. Power Dissipation

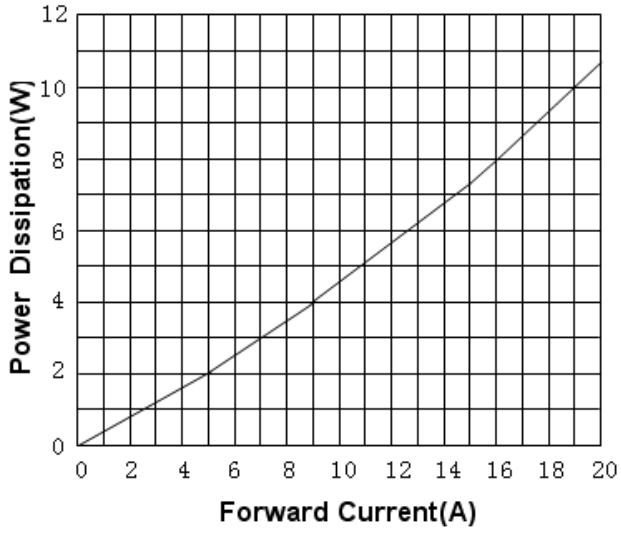


Figure 2. Forward Current Derating

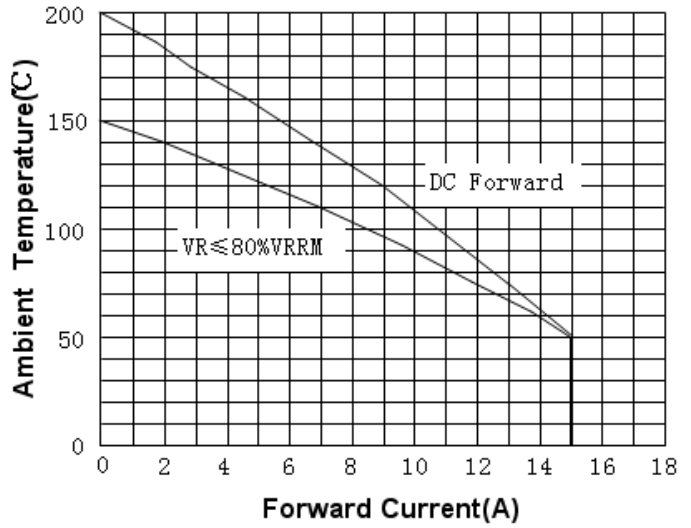


Figure 3. Forward Characteristics(Typical Value)

