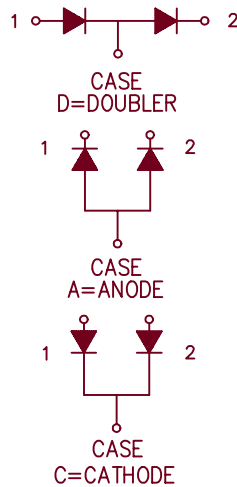
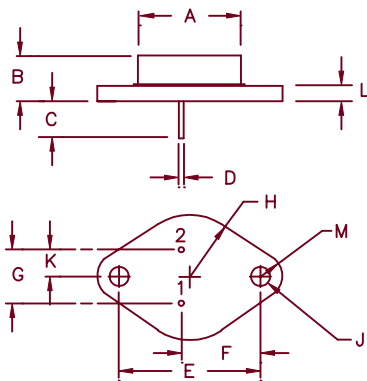


Schottky Rectifier

SBT3040 — SBT3050

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Dim.	Inches		Millimeter		Notes
	Minimum	Maximum	Minimum	Maximum	
A	—	.875	—	22.23	Dia.
B	.250	.450	6.35	11.43	
C	.435	—	11.05	—	
D	.038	.043	.97	1.09	Dia.
E	1.177	1.197	29.90	30.40	
F	.655	.675	16.64	17.15	
G	.420	.440	10.67	11.18	
H	—	.525	—	13.34	Rad.
J	.151	.161	3.84	4.09	Dia.
K	.205	.225	5.21	5.72	
L	—	.135	—	3.43	
M	—	.188	—	4.78	Rad.

TO-204AA (TO-3)

Microsemi Catalog Number	Industry Part Number	Working Peak Reverse Voltage	Repetitive Peak Reverse Voltage
SBT3040*	40CDQ035	35V	35V
SBT3045*	40CDQ040	40V	40V
SBT3050*	40CDQ045	45V	45V
		50V	50V

*ADD D, C, or A

- Schottky Barrier Rectifier
- Guard Ring Protection
- Low Forward Voltage
- VRRM – 40 to 50V
- 30 Amperes
- Reverse Energy Tested

Electrical Characteristics Per Leg		
Average forward current (standard)	I _{F(AV)} 30 Amps	T _C = 148°C, Square wave, R _{θJC} = 1.4°C/W
Average forward current (reverse)	I _{F(AV)} 30 Amps	T _C = 132°C, Square wave, R _{θJC} = 2.2°C/W
Maximum surge current	I _{FSM} 600 Amps	8.3 ms, half sine T _J = 175°C
Max repetitive peak reverse current	I _{R(OV)} 2 Amps	f = 1 KHz, 25°C, 1 μsec Square wave
Max peak forward voltage	V _{FM} .57 Volts	I _{FM} = 30A: T _J = 175°C*
Max peak forward voltage	V _{FM} .70 Volts	I _{FM} = 30A: T _J = 25°C*
Max peak reverse current	I _{RM} 25 mA	V _{RRM} , T _J = 125°C*
Max peak reverse current	I _{RM} 1.5 mA	V _{RRM} , T _J = 25°C
Typical junction capacitance per leg	C _J 1800 pF	V _R = 5.0V, T _J = 25°C

*Pulse test: Pulse width 300 μsec, Duty cycle 2%

Thermal and Mechanical Characteristics		
Storage temp range	T _{STG}	-65°C to 175°C
Operating junction temp range	T _J	-65°C to 175°C
Maximum thermal resistance (standard polarity)	R _{θJC}	1.4°C/W Junction to case
Maximum thermal resistance (reverse polarity)	R _{θJC}	2.2°C/W Junction to case
Typical thermal resistance	R _{θCS}	0.5°C/W Case to sink
Weight		1.0 ounces (28 grams) typical

SBT3040 — SBT3050

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Figure 1
Typical Forward Characteristics



Figure 3
Typical Junction Capacitance

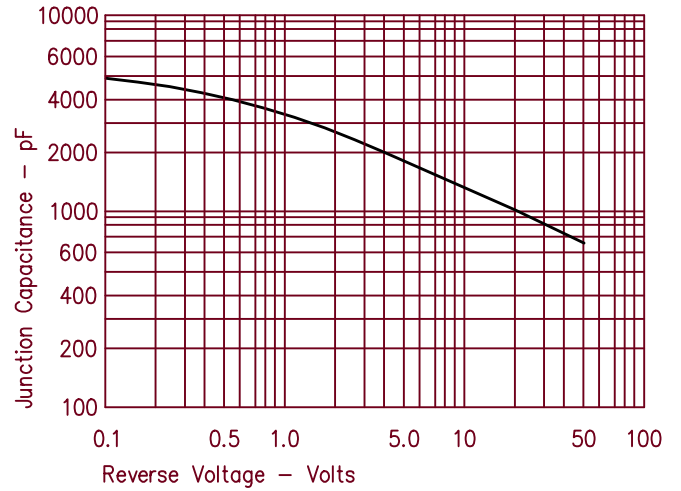


Figure 4
Forward Current Derating - Standard Polarity

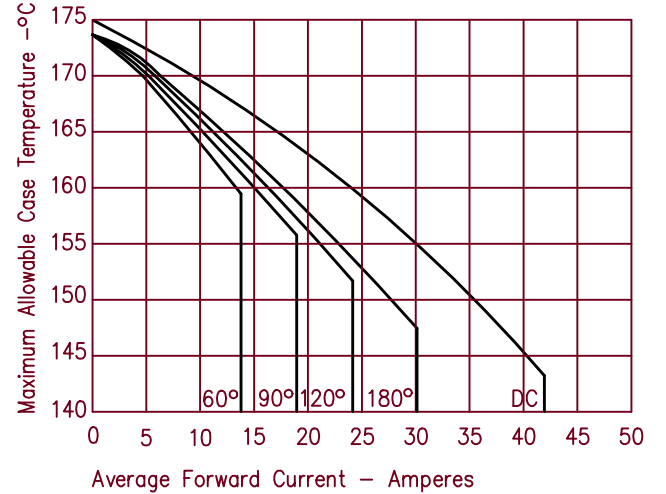


Figure 2
Typical Reverse Characteristics

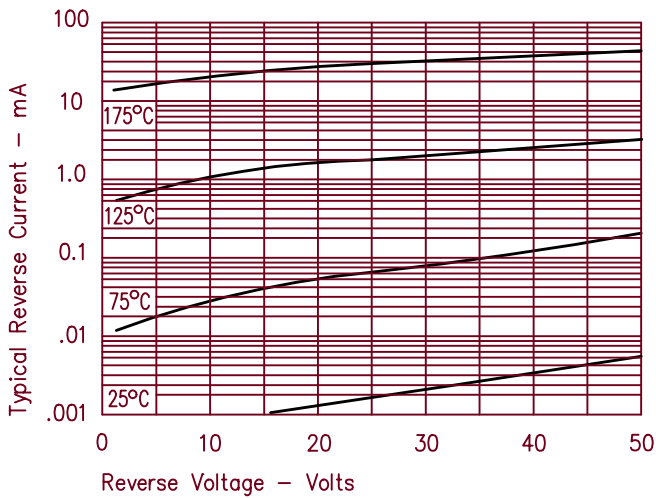
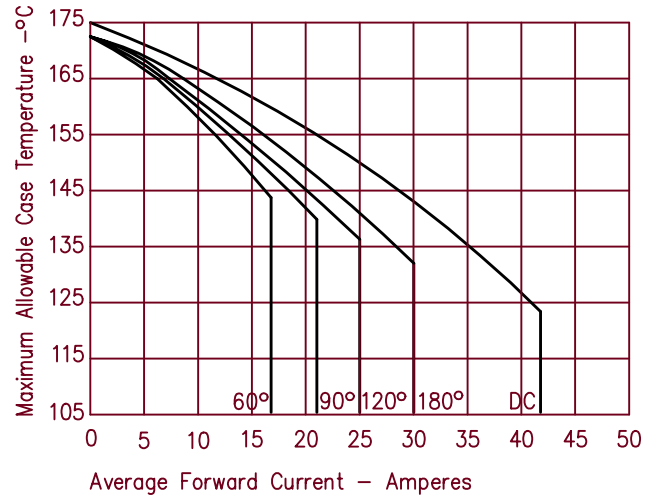


Figure 5
Forward Current Derating - Reverse Polarity



SBT3040 — SBT3050

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Figure 6
Maximum Forward Power Dissipation – Standard Polarity

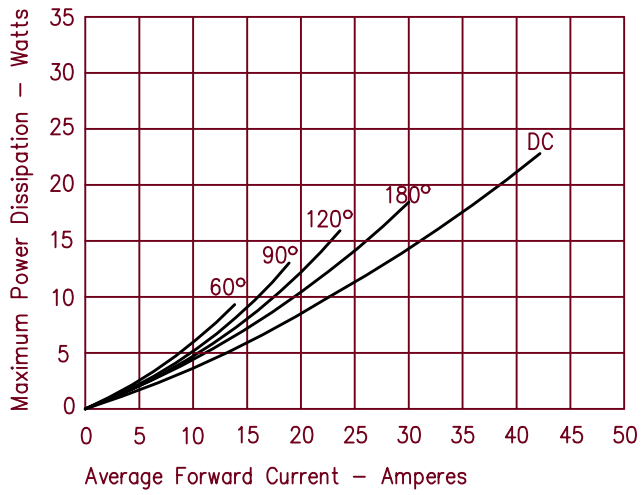


Figure 7
Maximum Forward Power Dissipation – Reverse Polarity

