

Power Schottky Rectifier - 5Amp 20~100Volt

☐ Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction

☐ Mechanical data

- Case : Molded plastic
- Epoxy : UL 94V-0 rate flame retardant
- Lead : Axial leads, solderable per MIL-STD-202,method 208 guaranteed
- Polarity : Color band denotes cathode end
- Mounting position : Any
- Weight : 1.10 grams

☐ Maximum ratings and Electrical characteristics

TYPE		SB540FC	SB560FC	SB5100FC	UNIT
Maximum Recurrent Peak Reverse Voltage		40	60	100	V
Maximum RMS Voltage		28	42	70	V
Maximum DC Blocking Voltage		40	60	100	V
Maximum Average Forward Rectified Current		5.0			A
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load		100			A
Maximum Instantaneous Forward Voltage at 5.0A		0.55	0.65	0.82	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	Ta = 25°C	0.5	0.3	0.01	mA
	Ta = 100°C	20	15	10	
Typical Junction Capacitance		380			pF
Typical Thermal Resistance R _{θJA}		7			°C/W
Operating Temperature Range T _J		-50 - 125			°C
Storage Temperature Range T _{STG}		-65 - 150			°C

Note: Pulse Test : 380μs pulse width, 2% duty cycle

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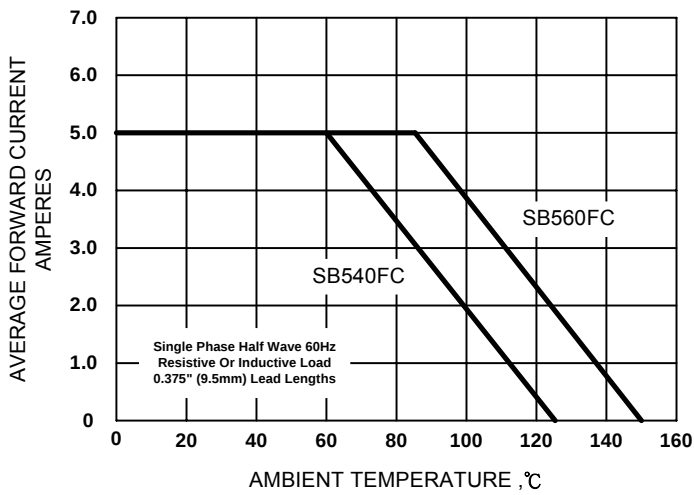


Figure 1. Forward Current Derating Curve

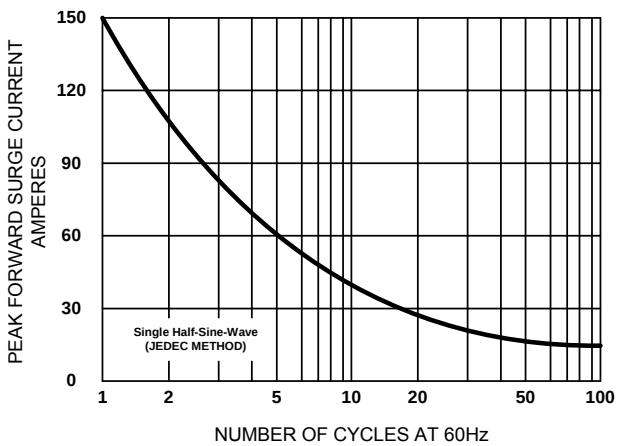


Figure 2. Maximum Non-repetitive Surge Current

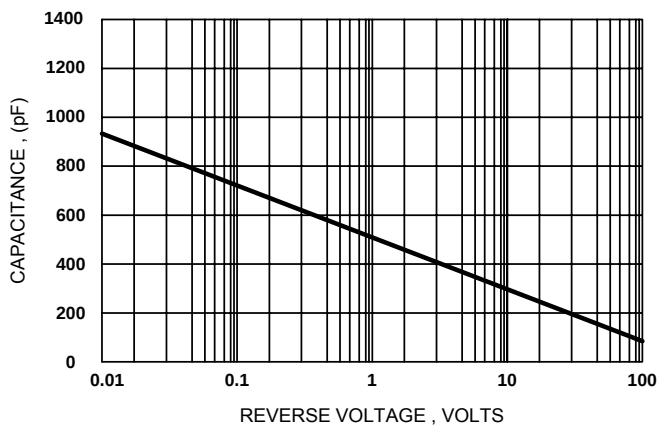


Figure 3. Typical Junction Capacitance

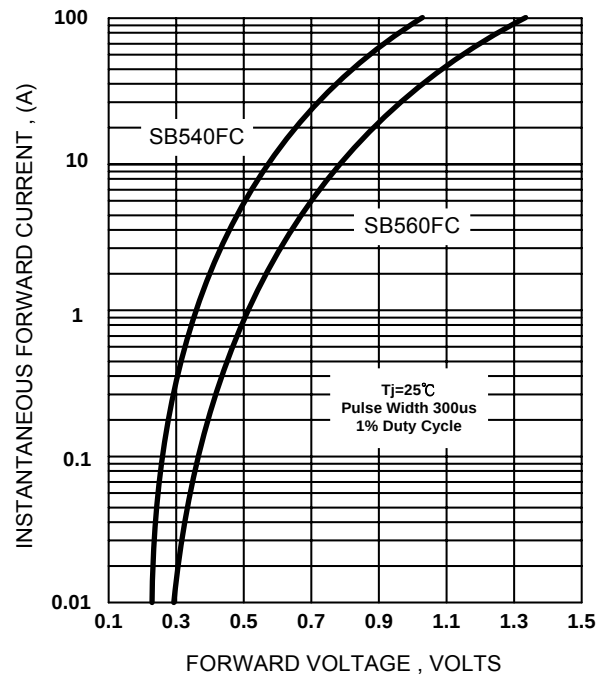


Figure 4. Typical Forward Characteristics

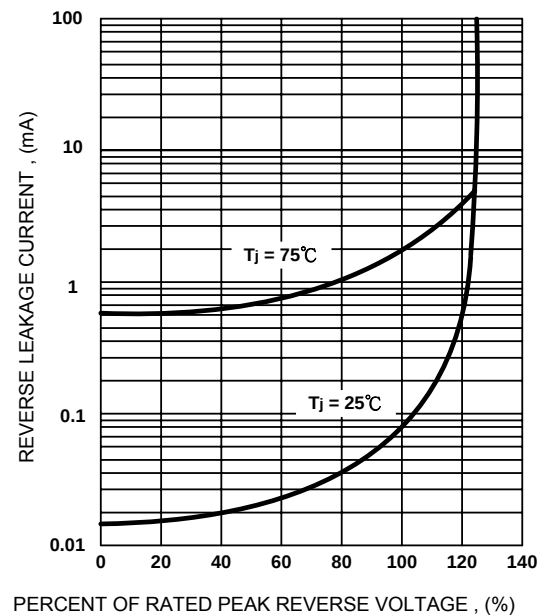
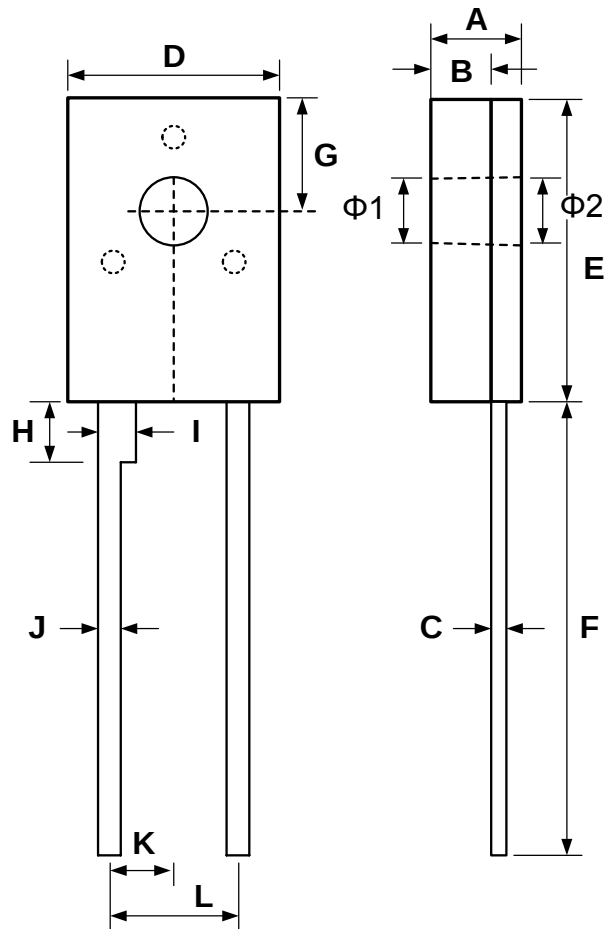


Figure 5. Typical Reverse Characteristics

TO-126FC PACKAGE



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.118	.134	3.00	3.40	
B	.071	.087	1.80	2.20	
C	.018	.024	0.45	0.60	
D	.307	.323	7.80	8.20	
E	.425	.441	10.80	11.20	
F	.594	.610	15.10	15.50	
G	.159	.167	4.04	4.24	
H	.078	.088	1.98	2.25	
I	.048	.058	1.22	1.47	
J	.026	.034	0.66	0.86	
K	.090 TYP		2.28 TYP		
L	.176	.183	4.46	4.66	
Φ1	.106	.114	2.70	2.90	
Φ2	.122	.130	3.10	3.30	