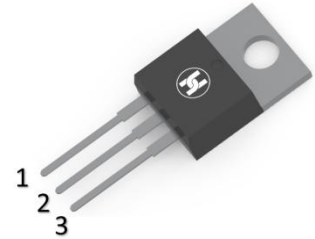
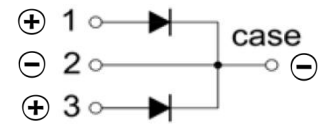


SCHOTTKY BARRIER DIODE
FEATURES

- Low power loss, high efficiency
- High Surge Capability
- High Current Capability and Low Forward Voltage Drop
- Guard Ring for over voltage protection
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications


TO-220
MECHANICAL DATA

- Case: TO-220
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Weight: 2.30 grams (approximate)


MAXIMUM RATINGS (T_A = 25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Repetitive peak reverse voltage	V _{RRM}	100	V
DC Reverse Voltage	V _R	100	V
RMS Reverse Voltage	V _{RMS}	70	V
Non-Repetitive Peak Forward Surge Current @ t = 8.3 ms	I _{FSM}	120	A
Mean rectifying current	I _F	20	A
Power dissipation	P _D	2	W
Thermal Resistance From Junction To Ambient	R _{θJA}	50	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{STG}	-55 ~+150	°C

ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise specified)

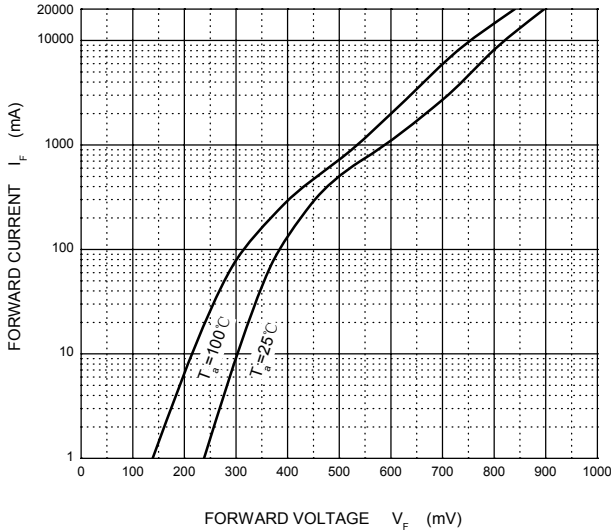
Parameter	Symbol	Min	Max	Unit	Conditions
Forward voltage	V _F		1	V	I _F =10A
			1.2	V	I _F =20A*
Reverse current	I _R		0.10	mA	V _R =100V
Reverse voltage	V _R	100		V	I _R =1mA
Junction capacitance	C _J		150	pF	V _R =4V, f=1MH

*Pulse test

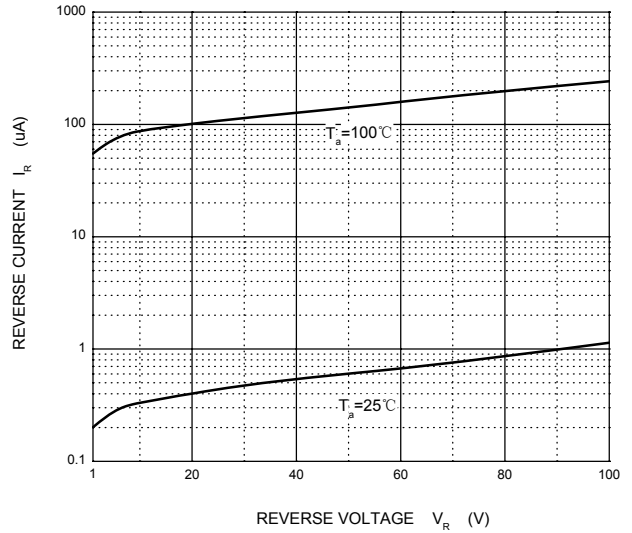
SCHOTTKY BARRIER DIODE

Typical Characteristics

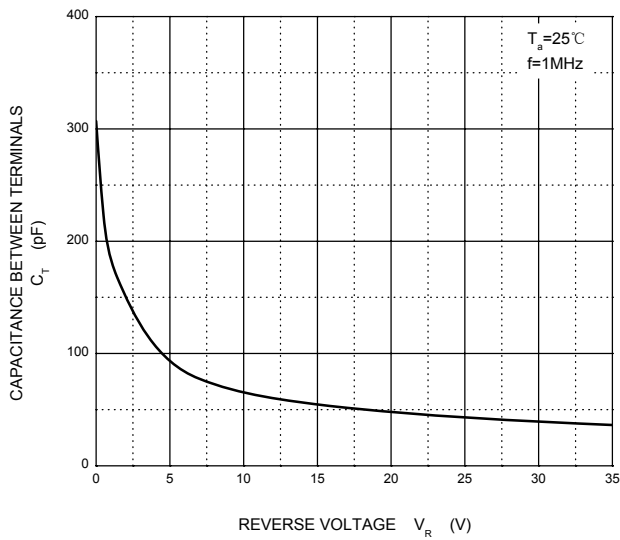
Forward Characteristics



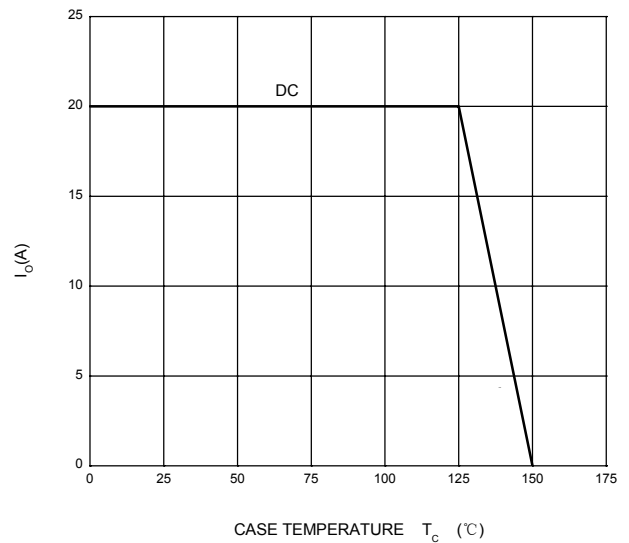
Reverse Characteristics

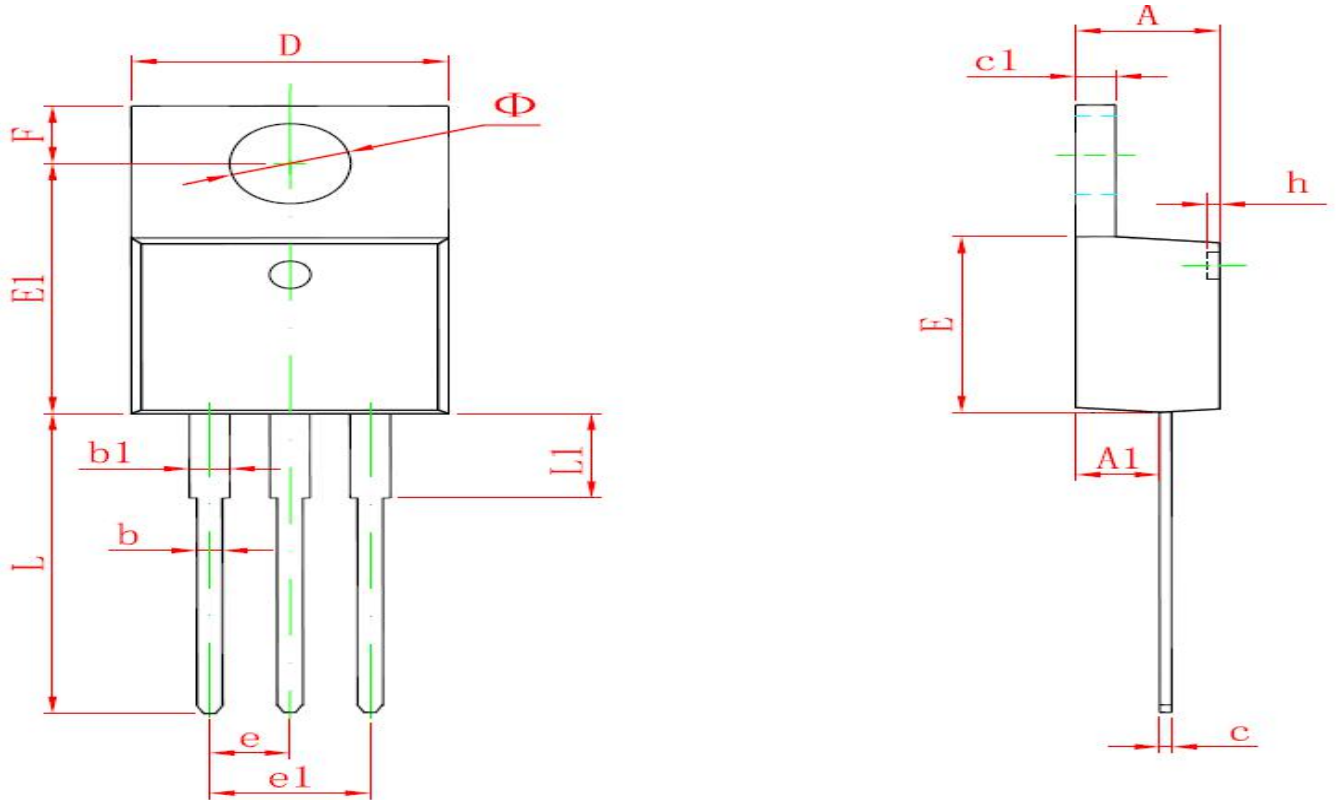


Capacitance Characteristics



I_O vs T_C



SCHOTTKY BARRIER DIODE
TO-220 Package Outline Dimensions


Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.470	4.670	0.176	0.184
A1	2.520	2.820	0.099	0.111
b	0.710	0.910	0.028	0.036
b1	1.170	1.370	0.046	0.054
c	0.310	0.530	0.012	0.021
c1	1.170	1.370	0.046	0.054
D	10.010	10.310	0.394	0.406
E	8.500	8.900	0.335	0.350
E1	12.060	12.460	0.475	0.491
e	2.540Typ		0.100Typ	
e1	4.980	5.180	0.196	0.204
F	2.590	2.890	0.102	0.114
h	0.000	0.300	0.000	0.012
L	13.400	13.800	0.528	0.543
L1	3.560	3.960	0.140	0.156
Ø	3.735	3.935	0.147	0.155