

Main Product Characteristics:

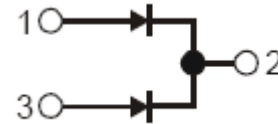
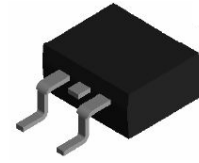
IF	2×5A
VRRM	100V
T _j (max)	150°C
V _f (max)	0.8V

Features and Benefits:

- High Junction Temperature
- High ESD Protection
- High Forward & Reverse Surge capability

Description:

Schottky Barrier Rectifier designed for high frequency switch model power supplies such as adaptors and DC/DC convertors; this product special design for high forward and reverse surge capability


TO252
SSBD10100CTD
Absolute Rating:

Symbol	Characterizes	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	100	V
V _{R(RMS)}	RMS Reverse Voltage	70	V
I _{F(AV)}	Average Forward Current	Per diode	5 A
		Per device	10 A
I _{FSM}	Non Repetitive Surge Forward Current(tp=8.3ms sinusoidal)	90	A
I _{RRM}	Peak Repetitive Reverse Surge Current(Tp=2us)	0.5	A
T _J	Maximum operation Junction Temperature Range	-50~150	°C
T _{stg}	Storage Temperature Range	-50~150	°C

Thermal Resistance

Symbol	Characterizes	Value	Unit
R _{θJC}	Maximum Thermal Resistance Junction To Case	5.5	°C/W

Electrical Characterizes @T_A=25°C unless otherwise specified

Symbol	Characterizes	Min	Typ	Max	Unit	Test Condition
V _R	Reverse Breakdown Voltage	100			V	I _R =0.5mA
V _F	Forward Voltage Drop			0.8	V	I _F =5A, T _J =25°C
				0.75		I _F =5A, T _J =125°C
I _R	Leakage Current			0.1	mA	V _R =100V, T _J =25°C
				5		V _R =100V, T _J =125°C

I-V Curves:

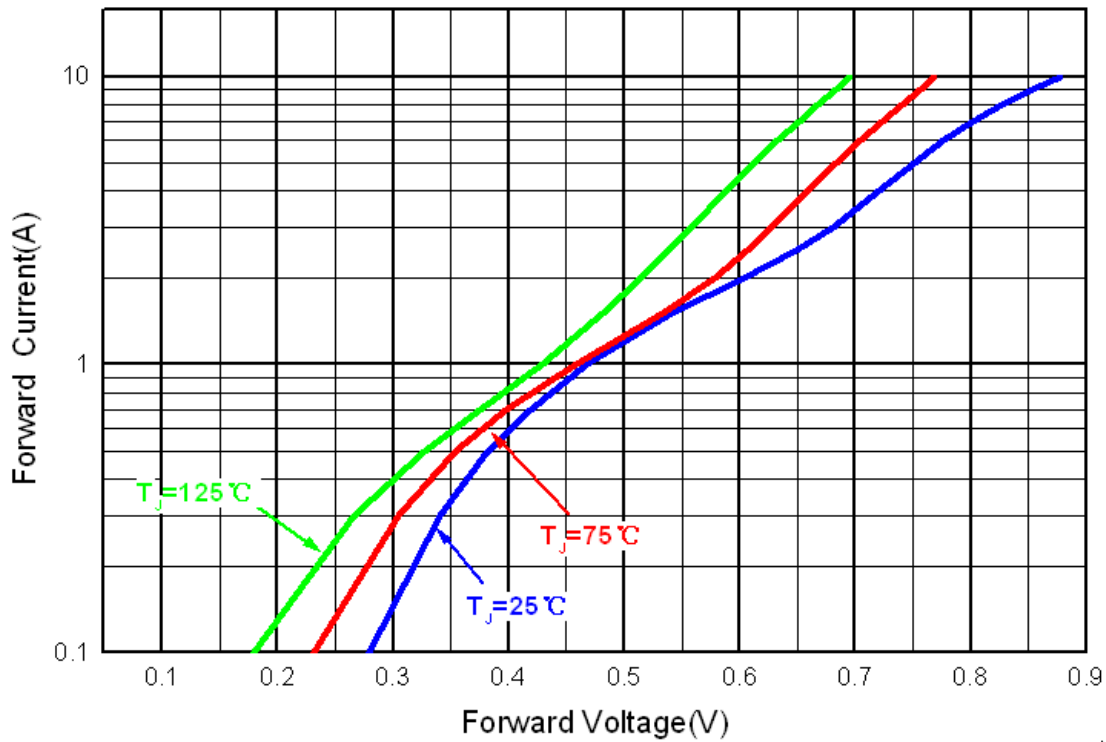


Figure 1: Typical Forward Characteristics

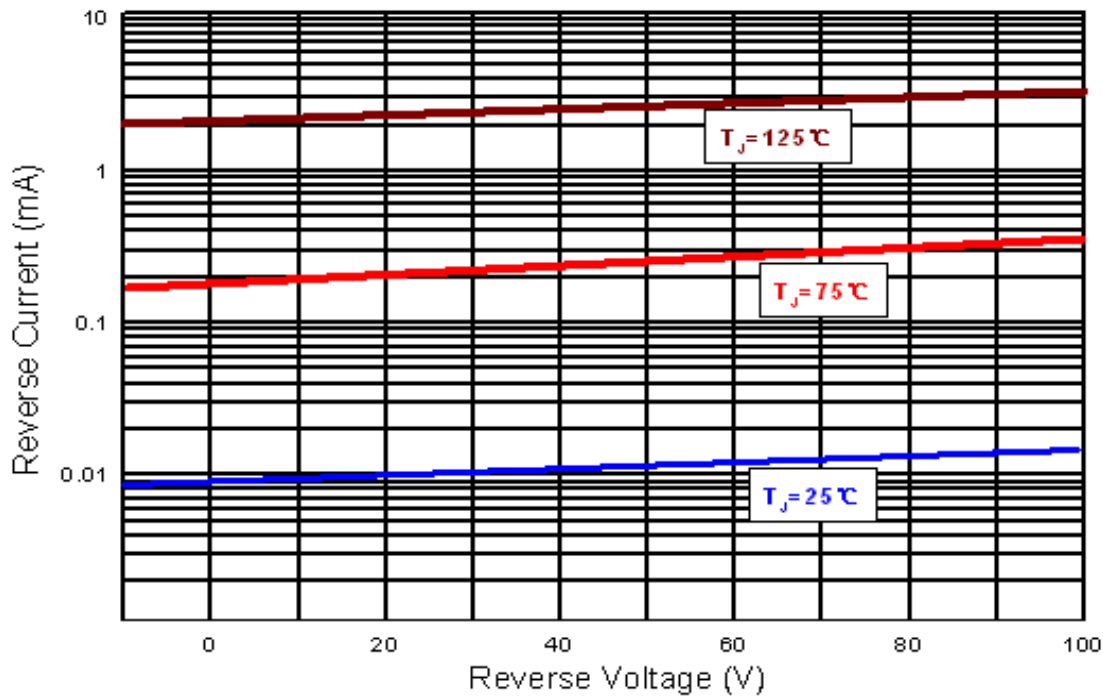
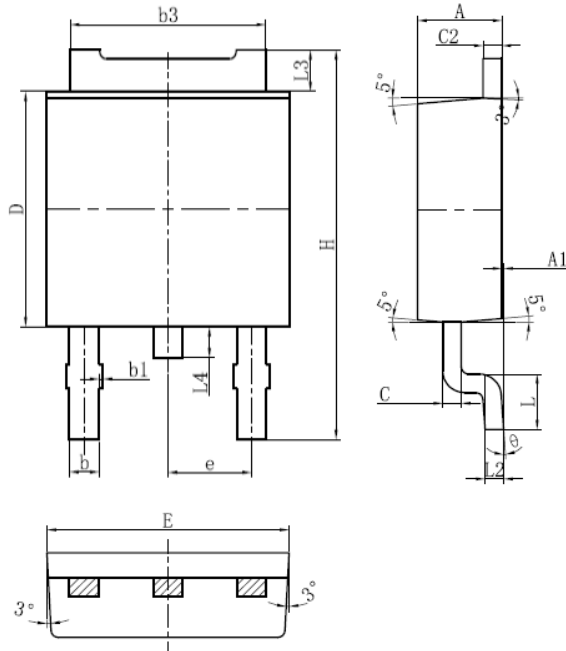


Figure 2: Typical Reverse Characteristics

Mechanical Data:
TO252:


Symbol	Min.	Normal	Max.
E	6.55	6.6	6.65
L	1.40	1.5	1.60
L2	-	0.51BSC	-
L3	0.93	1.08	1.23
L4	0.7	0.8	0.9
D	6.05	6.1	6.15
H	9.9	10.1	10.3
b	0.763	0.813	0.863
b1	0	-	0.1
b3	5.28	5.33	5.38
e	2.23	2.28	2.33
A	2.25	2.3	2.35
A1	0	0.05	0.10
C	0.498	0.508	0.518
C2	0.498	0.508	0.518
θ	0	-	8°

NOTE:

1. Package body size exclude flash and gate burrs.
2. Dimension L is measured in gage plane.
3. Tolerance 0.10mm unless otherwise specified.
4. Controlling dimension is millimeter. Converted inch dimension are not necessarily exact.