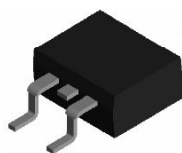


Main Product Characteristics:

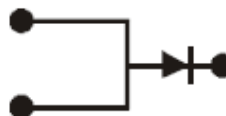
IF	10A
VRRM	45V
Tj(max)	150C
Vf(max)	0.55V



TO252
SSBD1045D

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

Absolute Rating:

Symbol	Characterizes	Value	Unit
V _{RRM}	Peak Repetitive Reverse Voltage	45	V
V _{R(RMS)}	RMS Reverse Voltage	31	V
I _{F(AV)}	Average Forward Current	Per diode	10
I _{FSM}	Non Repetitive Surge Forward Current(tp=8.3ms sinusoidal)	150	A
I _{RRM}	Peak Repetitive Reverse Surge Current(Tp=2us/1KHZ)	2	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	TO220	2
R _{θJC}	Case	TO220F	4

Electrical Characterizes @T_A=25°C unless otherwise specified

Symbol	Characterizes	Min	Typ	Max	Unit	Test Condition
V _R	Reverse Breakdown Voltage	45			V	I _R =0.5mA
V _F	Forward Voltage Drop			0.55	V	I _F =10A, T _J =25°C
				0.5		I _F =10A, T _J =125°C
I _R	Leakage Current			0.1	mA	V _R =45V, T _J =25°C
				10		V _R =45V, T _J =125°C

I-V Curves;

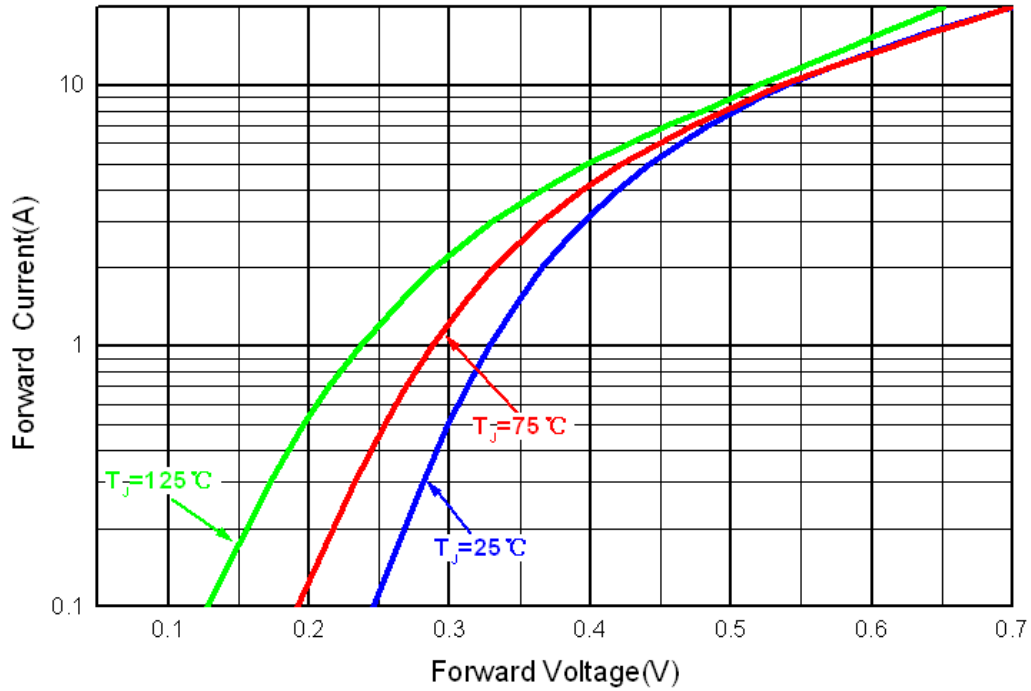


Figure 1: Typical Forward Characteristics

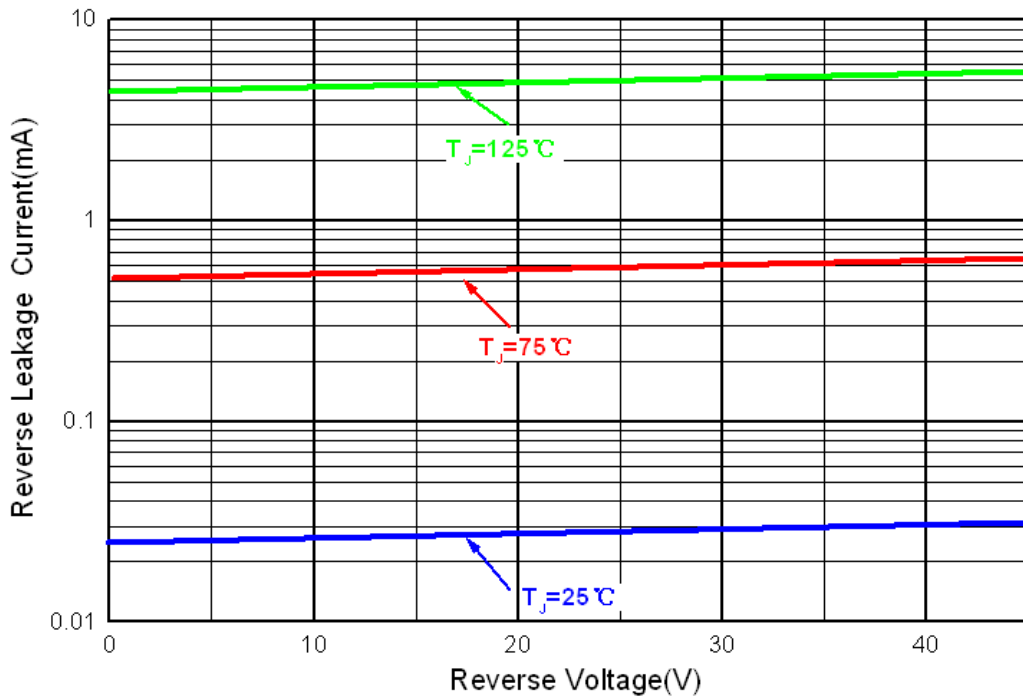


Figure 2: Typical Reverse Characteristics