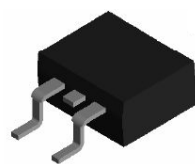


Main Product Characteristics:

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



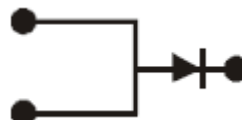
TO252
SSBD1045D

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
VRRM	Peak Repetitive Reverse Voltage		45	V
VR(RMS)	RMS Reverse Voltage		31	V
IF(AV)	Average Forward Current	Per diode	10	A
IFSM	Non Repetitive Surge Forward Current(tp=8.3ms sinusoidal)		150	A
IRRM	Peak Repetitive Reverse Surge Current(Tp=2us/1KHZ)		2	A
TJ	Maximum operation Junction Temperature Range		-50~150	°C
Tstg	Storage Temperature Range		-50~150	°C

Thermal Resistance

Symbol	Characterizes		Value	Unit
RθJC	Maximum Thermal Resistance Junction To	TO220	2	°C/W
RθJC	Case	TO220F	4	°C/W

Electrical Characterizes @TA=25°C unless otherwise specified

Symbol	Characterizes	Min	Typ	Max	Unit	Test Condition
VR	Reverse Breakdown Voltage	45			V	IR=0.5mA
VF	Forward Voltage Drop			0.55	V	IF=10A, TJ=25°C
				0.5		IF=10A, TJ=125°C
IR	Leakage Current			0.1	mA	VR=45V, TJ=25°C
				10		VR=45V, TJ=125°C

I-V Curves;

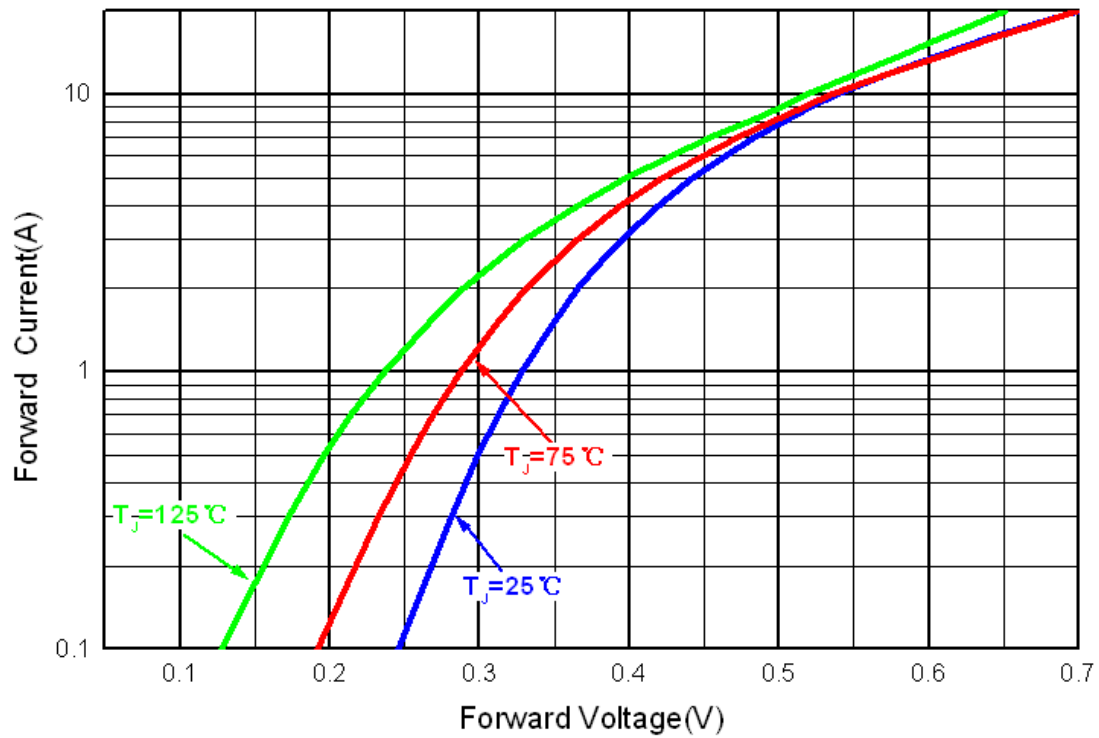


Figure 1: Typical Forward Characteristics

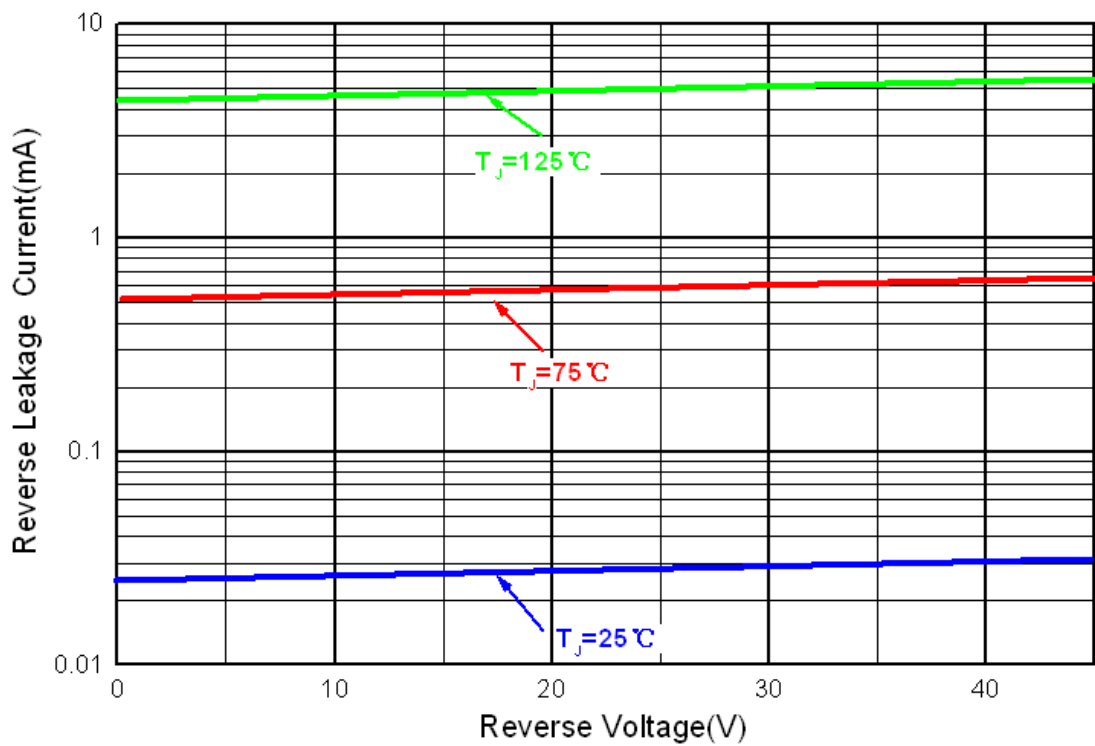


Figure 2: Typical Reverse Characteristics