Ordering number :EN1925B

SB05-09

Shottky Barrier Diode

90V, 500mA Rectifier

Applications

· High frequency rectification (switching regulators, converters, choppers).

Features

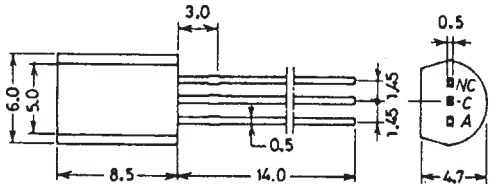
· Low forward voltage (V_F max=0.7V).
· Fast reverse recorvery time (trr max=10ns).
· Low switching noise.
· Low leakage current and high reliability due to highly reliable planar structure.

Package Dimensions

unit:mm

1158

[SB05-09]



EIAJ:SC-51
SANYO:MP

C:Cathode
A:Anode

Specifications

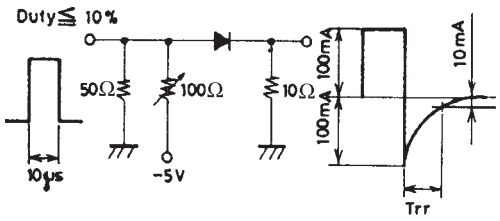
Absolute Maximum Ratings at Ta = 25˚C

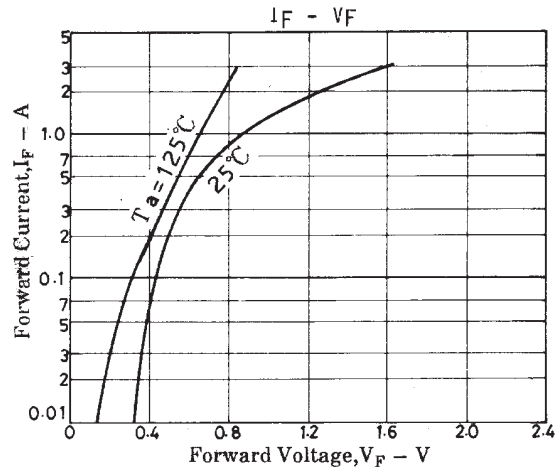
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		–90	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		–95	V
Average Output Current	I_O	50Hz, resistive load, Ta=60˚C	500	mA
Surge Forward Current	I_{FSM}	50Hz sine wave, 1cycle	10	A
Junction Temperature	Tj		–55 to +125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

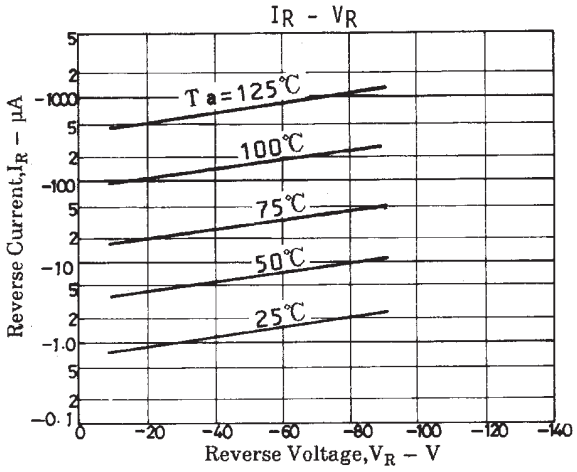
Electrical Characteristics at Ta = 25˚C

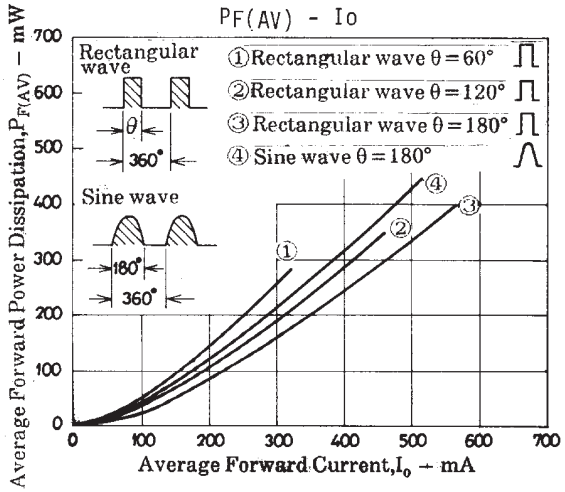
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	I_R=–300µA	–90			V
Forward Voltage	V_F	I_F=500mA			0.7	V
Reverse Current	I_R	V_R=–45V			–80	µA
Interterminal Capacitance	C	V_R=–10V, f=1MHz		34		pF
Reverse Recorvery Time	trr	I_F=I_R=100mA, See specified Test Circuit			10	ns
Thermal Resistance	Rthj-a			110		˚C/W

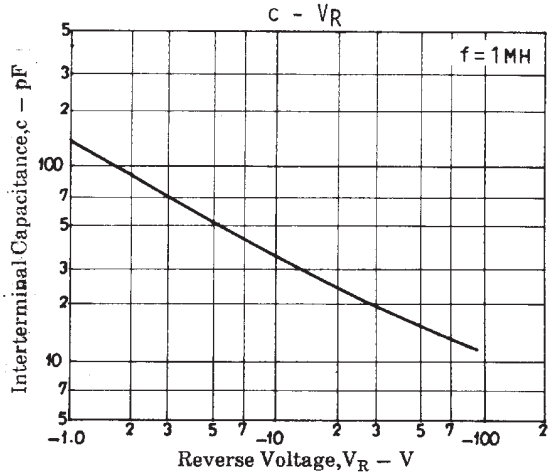
trr Test Circuit

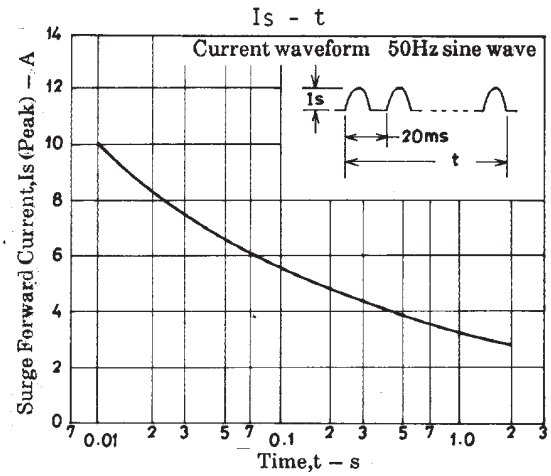












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