Ordering number:EN3406A

SB10-04A3

Schottky Barrier Diode

40V, 1.0A Rectifier

Applications

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

Features

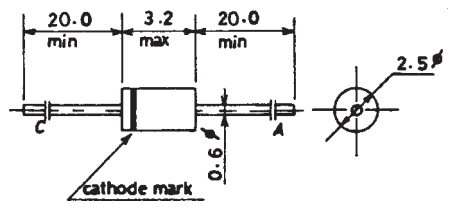
· Meets the requirements for automatic mounter.
· Low forward voltage (V_F max=0.55V).
· Small capacitance (C typ=45pF).
· Average rectified current (I_O=1.0A).

Package Dimensions

unit:mm

1237

[SB10-04A3]



C:Cathode
A:Anode

Specifications

Absolute Maximum Ratings at Ta = 25˚C

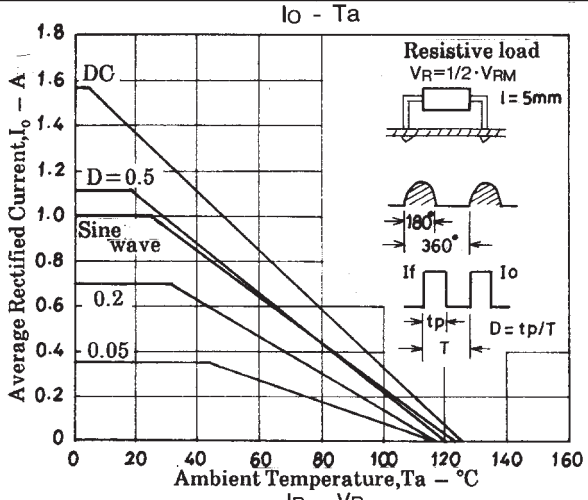
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		40	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		45	V
Average Output Current	I_O	50Hz, resistive load, sine wave, Ta=25˚C L=5mm, 3mmø print land	1.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	30	A
Junction Temperature	Tj		125	˚C
Storage Temperature	Tstg		–55 to +125	˚C

Electrical Characteristics at Ta = 25˚C

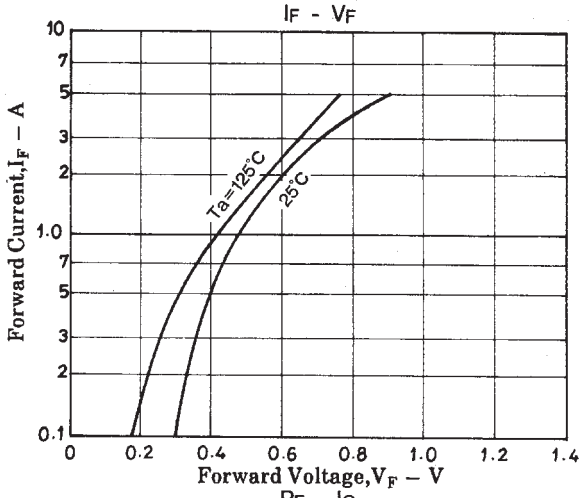
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Forward Voltage	V_F	I_F=1.0A			0.55	V
Reverse Current	I_R	V_R=40V			0.8	mA
Interterminal Capacitance	C	V_R=10V, f=1MHz		45		pF
Thermal Resistance (junction-Ambient)	Rth(j-a)	Mounted on PCB			113	˚C/W

SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

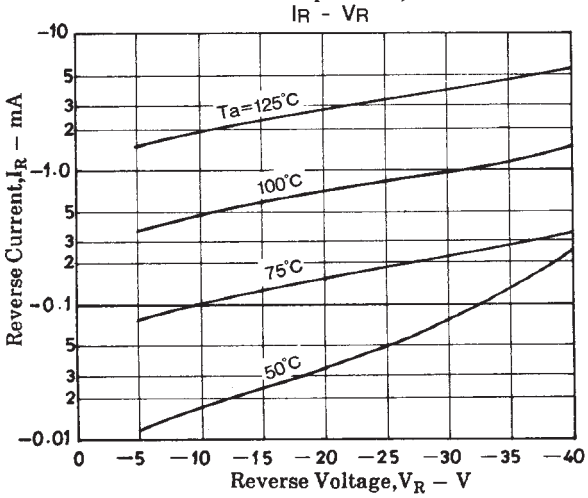
Io - Ta



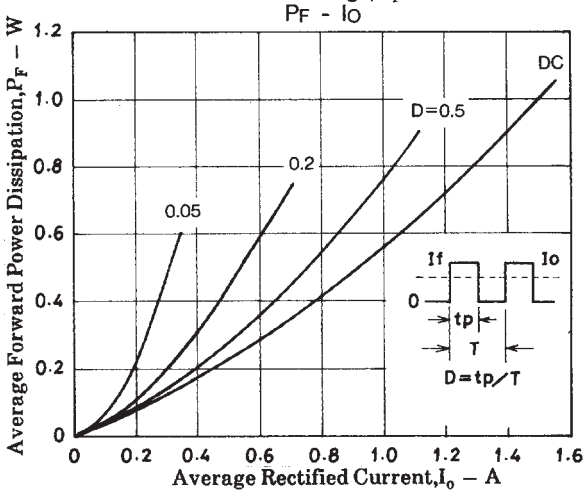
IF - VF



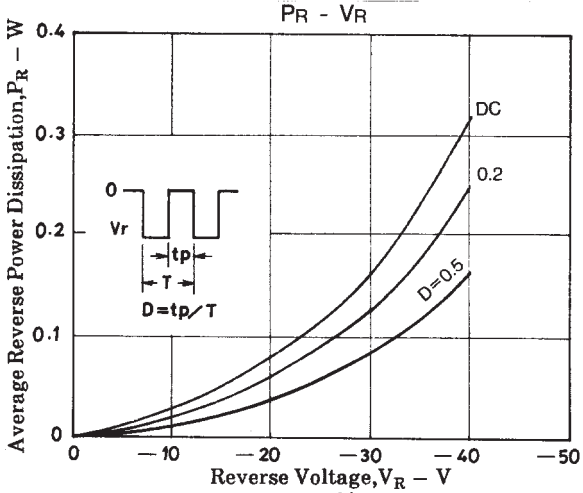
IR - VR



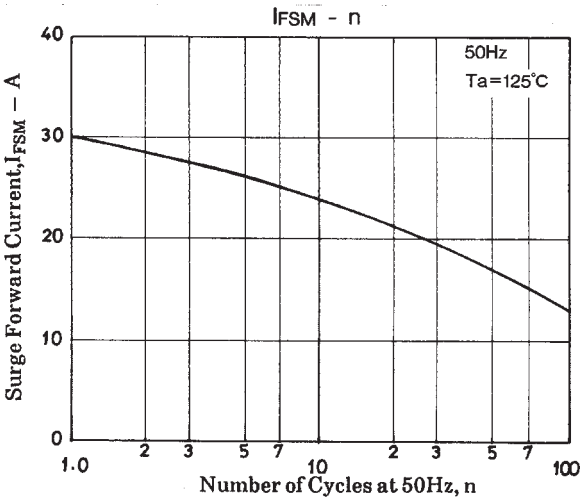
PF - Io



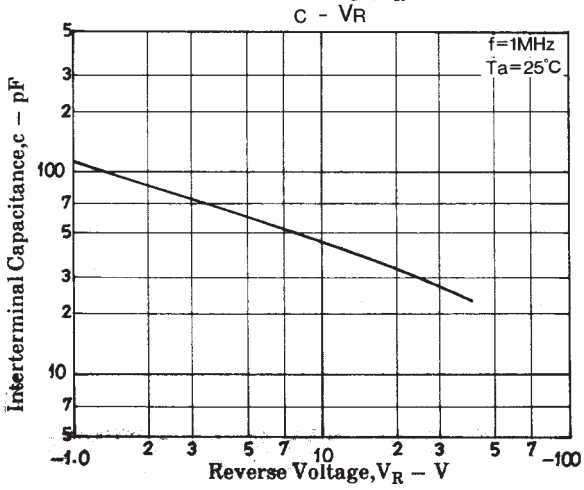
PR - VR



IFSM - n



C - VR



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