

SB40-03T

Schottky Barrier Diode

30V, 4A Rectifier

Applications

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

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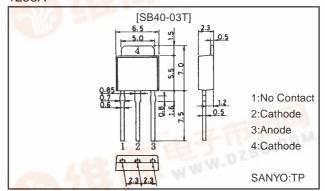
Features

- · Low forward voltage ($V_F \text{ max}=0.55V$).
- · Fast reverse recovery time (trr max=30ns).
- · Low switching noise.
- · Low leakage current and high reliability due to highly reliable planar structure.

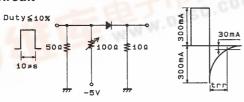
Package Dimensions

unit:mm

1255A

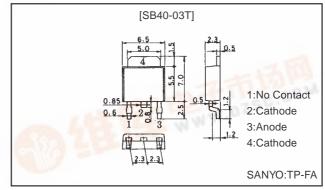


trr Test Circuit



unit:mm

1256A



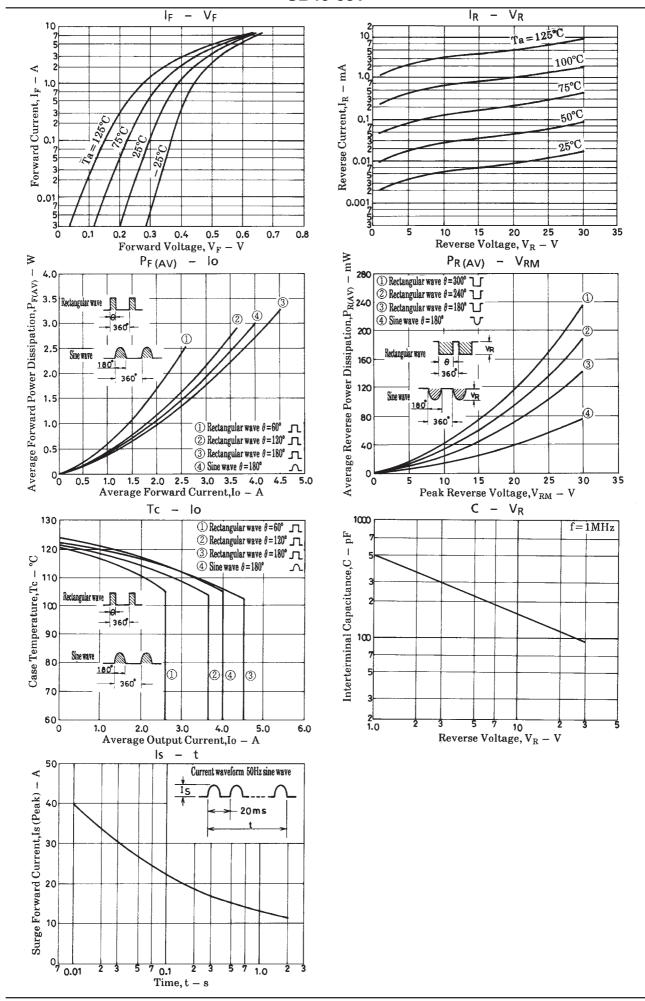
Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}		35	V
Average Output Current	10	50Hz, resistive load, Tc=105°C	4	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	40	Α
Junction Temperature	Tj	A STATE W	-55 to +125	°C
Storage Temperature	Tstg	180	-55 to +125	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Oill
Reverse Voltage	V _R	I _R =1mA	30			V
Forward Voltage	V _F (1)	I _F =4A			0.55	V
· \((\(\(\(\(\)\)\)	V _F (2)	I _F =1A			0.45	V
Reverse Current	I _R	V _R =15V			200	μA
Interterminal Capacitance	С	V _R =10V, f=1MHz		160		pF
Reverse Recovery Time	trr	I _F =I _R =300mA, See sepcified Test Circuit			30	ns
Thermal Resistance (Junction-Ambient)	Rth(j-a)			90		°C/W
Thermal Resistance (Junction-Case)	Rth(j-c)			6		°C/W



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