

SBS004M

15V, 1A Rectifier

Applications

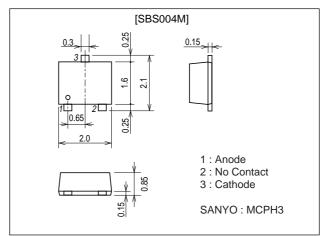
• High frequency rectification (switching regulators, converters, choppers).

Features

- Low forward voltage (I_F=0.5A, V_F max=0.35V) (I_F=1.0A, V_F max=0.4V).
- Ultrasmall-sized package permitting applied sets to be made small and slim (mounting height 0.85mm).

Package Dimensions

unit : mm 1305



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		15	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		15	V
Average Output Current	ΙO		1	Α
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

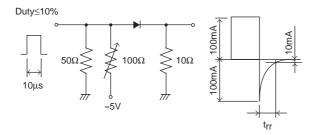
Electrical Characteristics at Ta=25°C

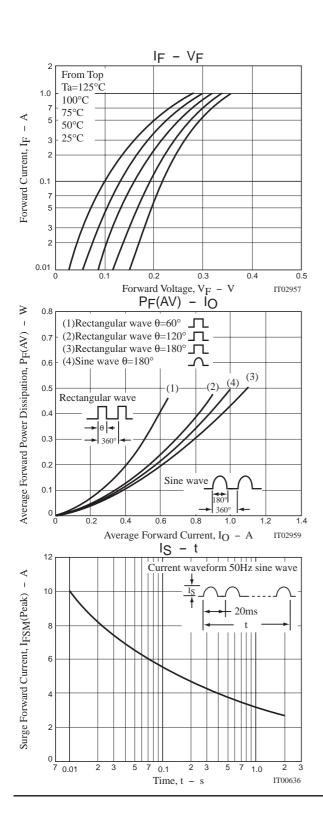
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	I _R =1mA	15			V
Forward Voltage	V _F 1	I _F =0.5A		0.30	0.35	V
	V _F 2	I _F =1A		0.35	0.40	V
Reverse Current	IR	V _R =6V			500	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		42		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.			15	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm ² X0.8mm)		138		°C / W

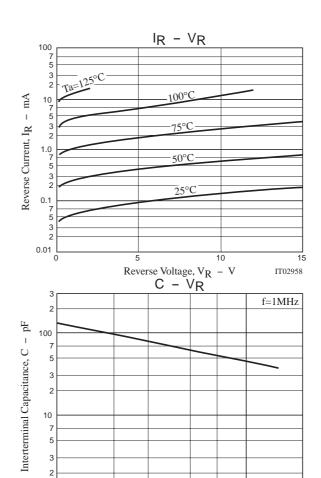
Marking: SA

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trr Test Circuit







Reverse Voltage, $V_R - V$

1.0

SBS004M

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