

SBS006M

30V, 0.5A Rectifier

Applications

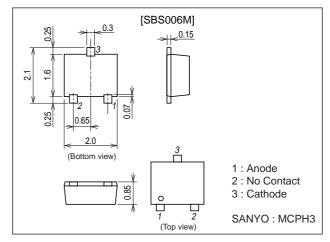
• High frequency rectification (switching regulators, converters, choppers).

Features

- Low forward voltage (IF=0.3A, VF max=0.4V) (IF=0.5A, VF max=0.47V).
- Ultrasmall package permitting applied sets to be small and slim (Mounting height 0.85mm).

Package Dimensions

unit : mm 1305A



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		30	V
Average Output Current	IO		0.5	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

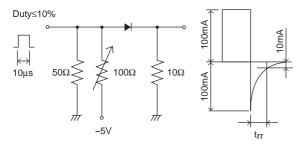
Electrical Characteristics at Ta=25°C

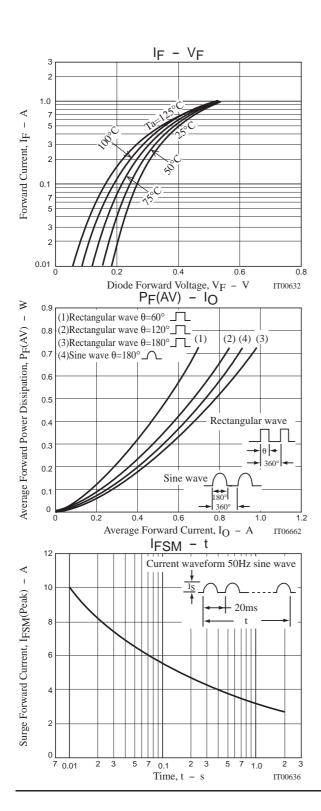
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	٧R	I _R =0.5mA	30			V
Forward Voltage	V _F 1	IF=0.3A		0.35	0.40	V
	V _F 2	I _F =0.5A		0.42	0.47	٧
Reverse Current	IR	V _R =10V			200	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		20		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	Mounted on a ceramic board (600mm²×0.8mm)		138		°C/W

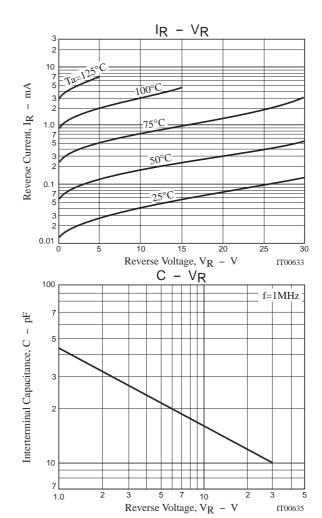
Marking: SD

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trr Test Circuit







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