



30V, 500mA Rectifier

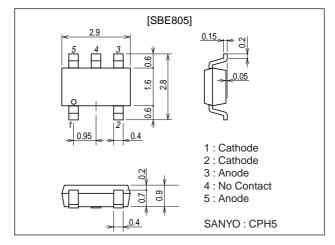
An ON Semiconductor Company

Features

- Low forward voltage (VF max=0.55V).
- Fast reverse recovery time (t_{rr} max=10ns).
- Composite type with 2 diodes contained in the CPH package currently in use, improving the mounting efficiency greatly.
- The chips incorporated are both equivalent to the SB05-03C.

Package Dimensions

unit : mm 1294



Specifications

Absolute Maximum Ratings at Ta=25°C (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	VRRM		30	V
Non-repetitive Peak Reverse Surge Voltage	VRSM		35	V
Average Output Current	lo		500	mA
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	5	Α
Junction Temperature	Tj		-55 to +125	°C
Storage Temperature	Tstg		-55 to +125	°C

Electrical Characteristics at Ta=25°C (Value per element)

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Reverse Voltage	٧R	IR=150μA	30			V
Forward Voltage	VF	IF=500mA			0.55	V
Reverse Current	IR	V _R =15V			30	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		16		pF
Reverse Recovery Time	t _{rr}	I _F =I _R =100mA, see specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)			300		°C/W

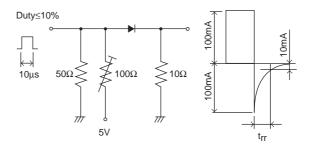
Marking : SE

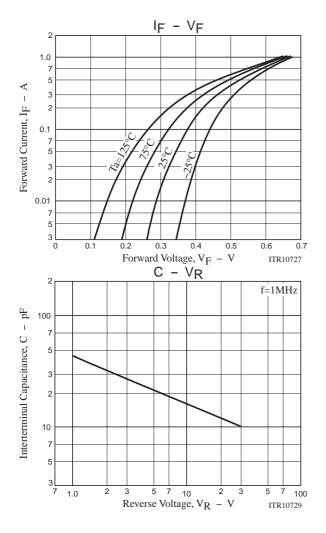
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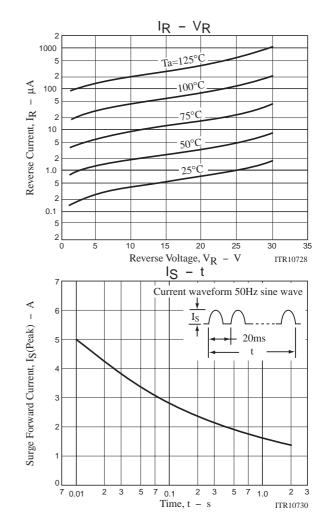
Electrical Connection

5 4 3 1 : Cathode 2 : Cathode 3 : Anode 4 : No Contact 5 : Anode

trr Test Circuit







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