

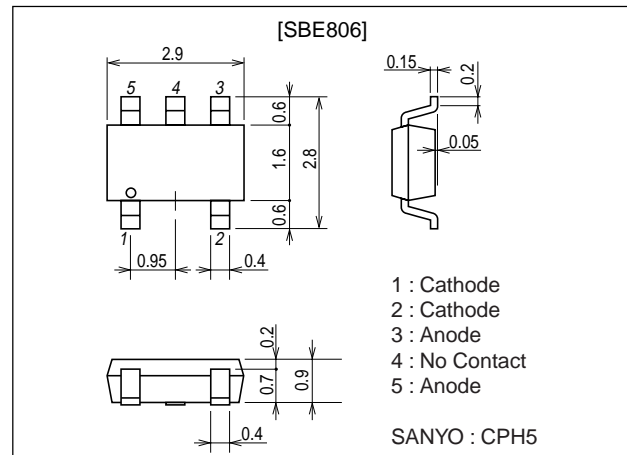
**50V, 100mA Rectifier****Features**

- Low forward voltage ( $V_F$  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 SB01-05CP.

**Package Dimensions**

unit : mm

1294

**Specifications****Absolute Maximum Ratings** at  $T_a=25^\circ\text{C}$  (Value per element)

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	$V_{RRM}$		50	V
Non-repetitive Peak Reverse Surge Voltage	$V_{RSM}$		55	V
Average Output Current	$I_O$		100	mA
Surge Forward Current	$I_{FSM}$	50Hz sine wave, 1 cycle	2	A
Junction Temperature	$T_j$		-55 to +125	$^\circ\text{C}$
Storage Temperature	$T_{stg}$		-55 to +125	$^\circ\text{C}$

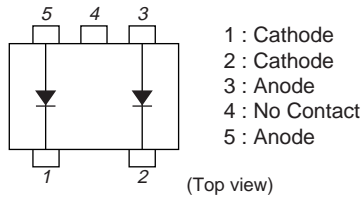
**Electrical Characteristics** at  $T_a=25^\circ\text{C}$  (Value per element)

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	$V_R$	$I_R=50\mu\text{A}$	50			V
Forward Voltage	$V_F$	$I_F=100\text{mA}$			0.55	V
Reverse Current	$I_R$	$V_R=25\text{V}$			15	$\mu\text{A}$
Interterminal Capacitance	C	$V_R=10\text{V}$ , $f=1\text{MHz}$		4.4		pF
Reverse Recovery Time	$t_{rr}$	$I_F=I_R=10\text{mA}$ , see specified Test Circuit.			10	ns
Thermal Resistance	$R_{th(j-a)}$			300		$^\circ\text{C/W}$

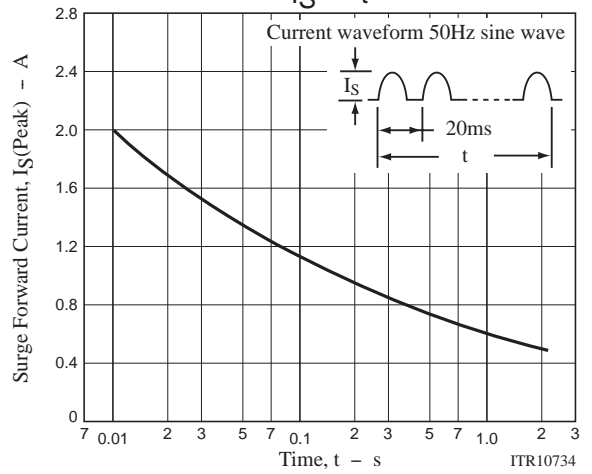
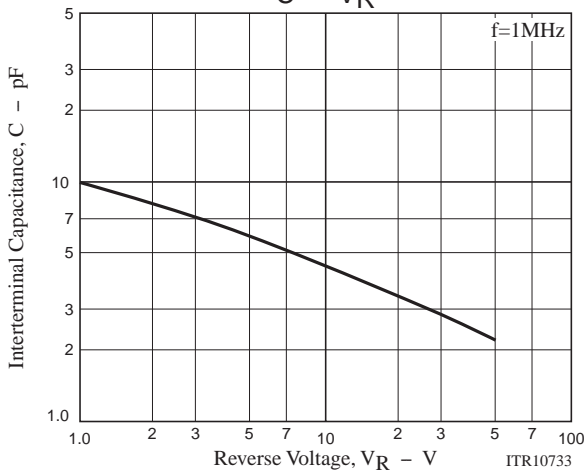
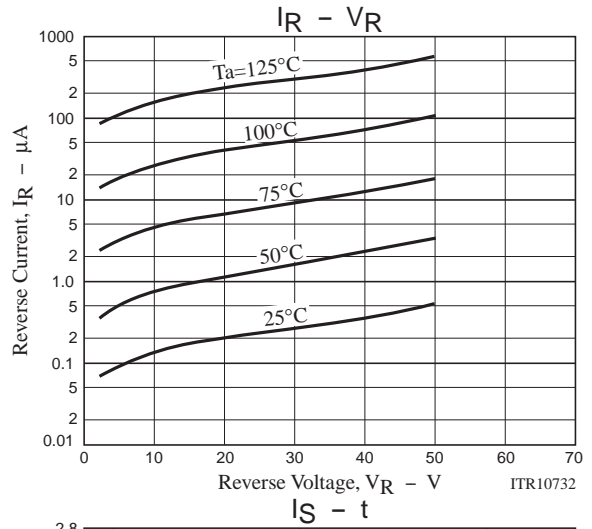
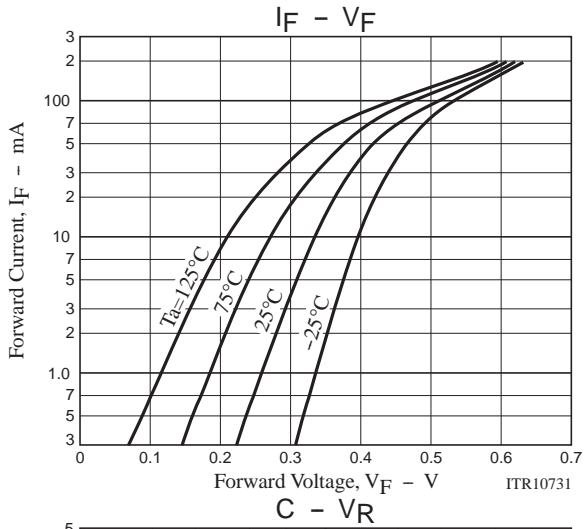
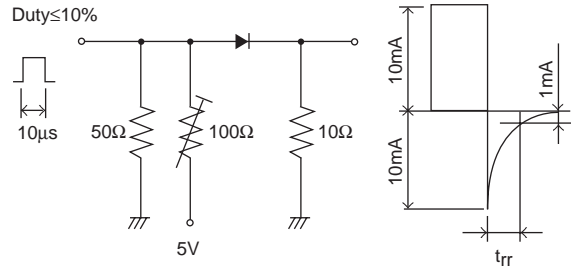
Marking : SF

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Electrical Connection



$t_{rr}$  Test Circuit



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