

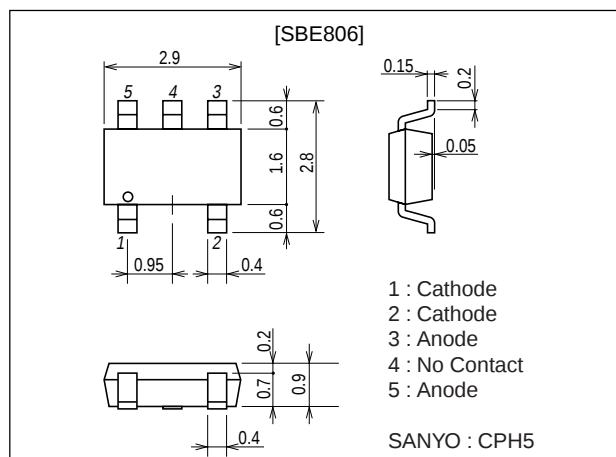
**SBE806****50V, 100mA Rectifier****Features**

- 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	μA
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		$^\circ\text{C/W}$

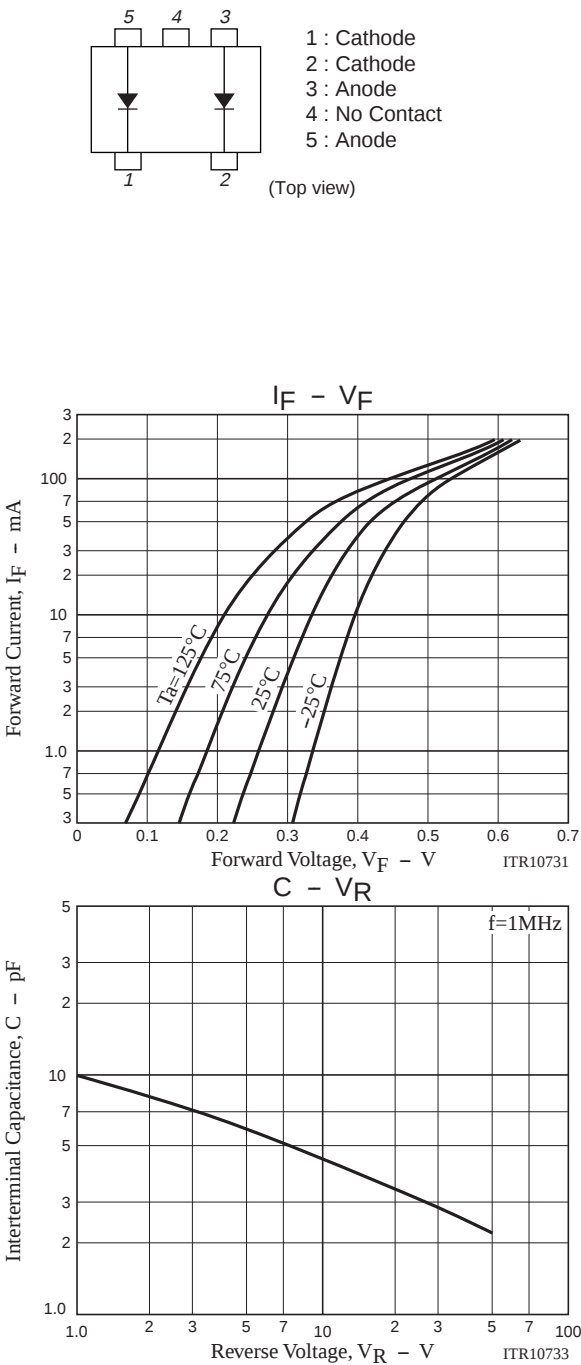
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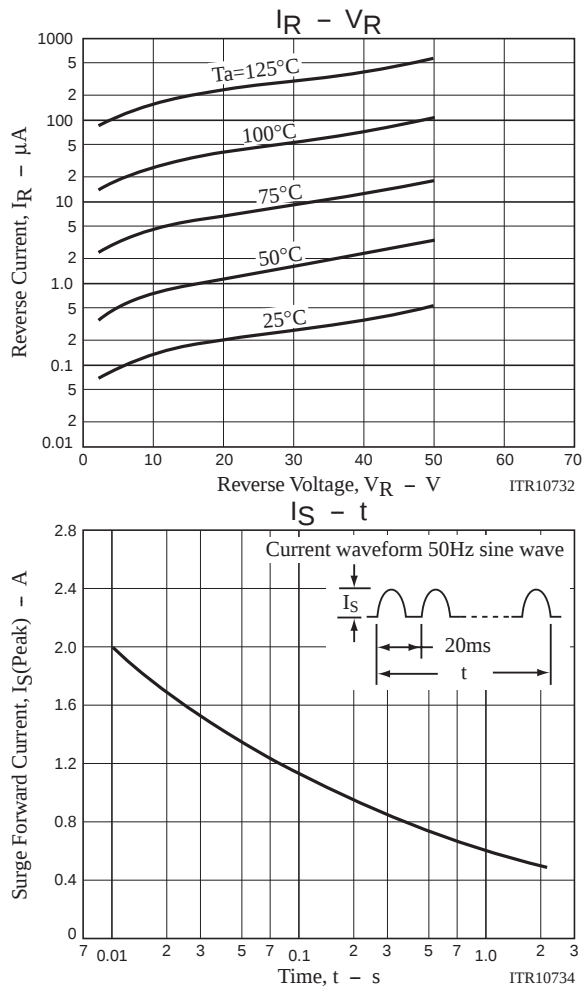
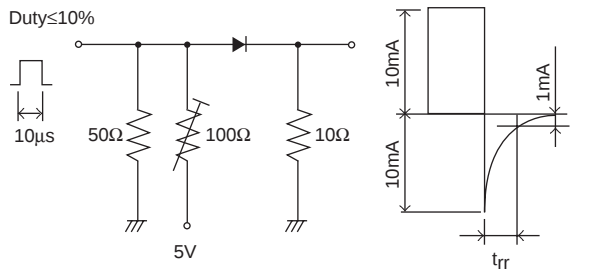
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Electrical Connection



t_{rr} Test Circuit



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