



SS3003CH

Schottky Barrier Diode 30V, 3.0A, Low VF, Single CPH6

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Applications

- High frequency rectification (switching regulators, converters, choppers)

Features

- Small switching noise
- Low forward voltage ($I_F=3A$, $V_F \text{ max}=0.42V$)
- Ultrasmall package permitting applied sets to be small and slim
- Halogen free compliance

Specifications

Absolute Maximum Ratings at $T_a=25^\circ C$

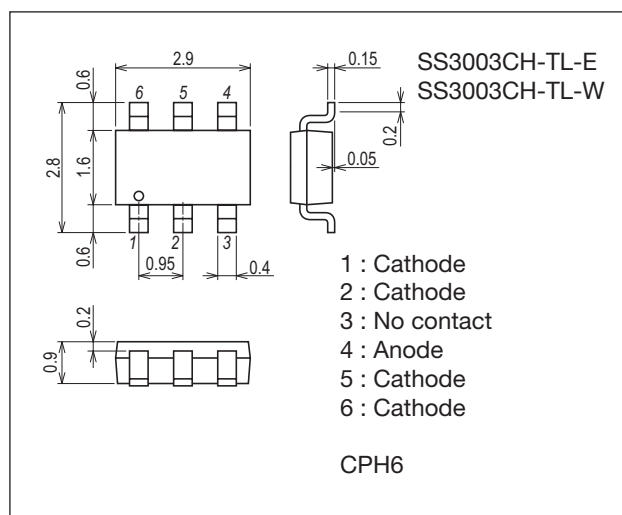
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V_{RRM}		30	V
Nonrepetitive Peak Reverse Surge Voltage	V_{RSM}		30	V
Average Output Current	I_O		3.0	A
Surge Forward Current	I_{FSM}	50Hz sine wave, 1 cycle	20	A
Junction Temperature	T_J		-55 to +125	$^\circ C$
Storage Temperature	T_{stg}		-55 to +125	$^\circ C$

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

Package Dimensions

unit : mm (typ)

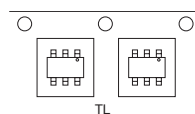
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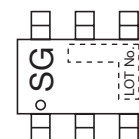
Product & Package Information

- Package : CPH6
- JEITA, JEDEC : SC-74, SOT-26, SOT-457
- Minimum Packing Quantity : 3,000 pcs./reel

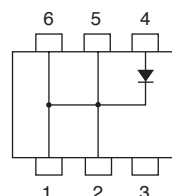
Packing Type: TL



Marking



Electrical Connection



ORDERING INFORMATION

See detailed ordering and shipping information on page 2 of this data sheet.

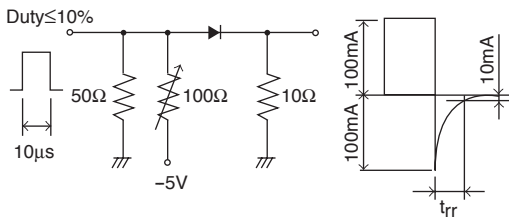
SS3003CH

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Reverse Voltage	V_R	$I_R=2.0\text{mA}$	30			V
Forward Voltage	V_F	$I_F=2.0\text{A}$		0.335	0.385	V
		$I_F=3.0\text{A}$		0.37	0.42	V
Reverse Current	I_R	$V_R=15\text{V}$			1.4	mA
Interterminal Capacitance	C	$V_R=10\text{V}$, $f=1\text{MHz}$		90		pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=100\text{mA}$			20	ns
Thermal Resistance	$R_{th(j-a)}$	When mounted on ceramic substrate (900mm ² ×0.8mm)		50		°C / W

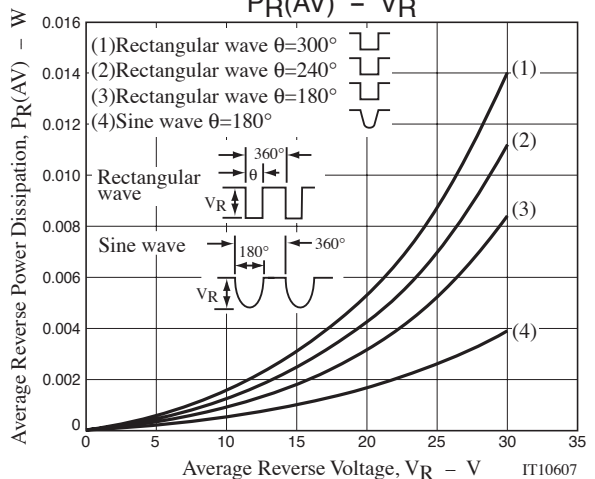
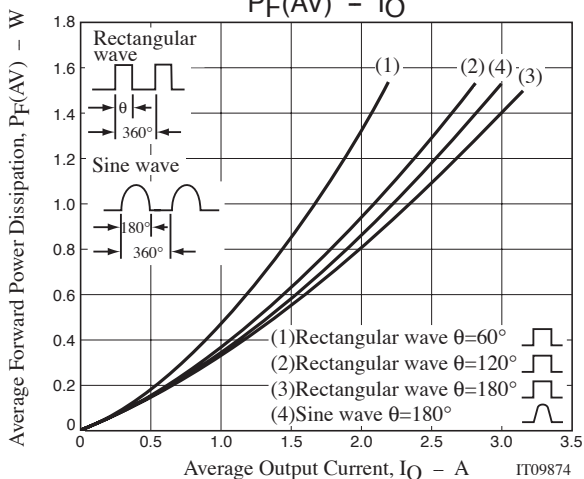
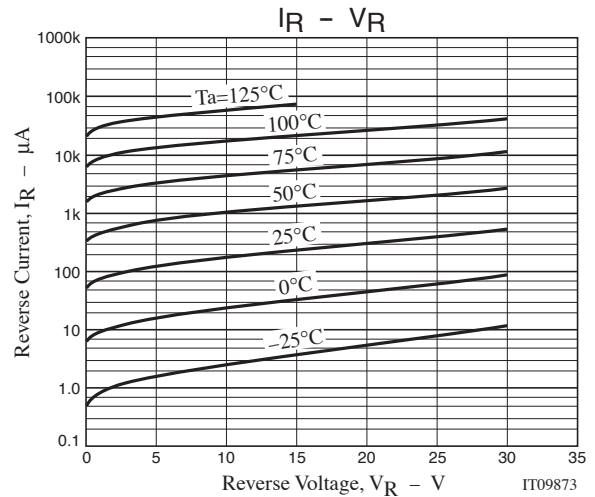
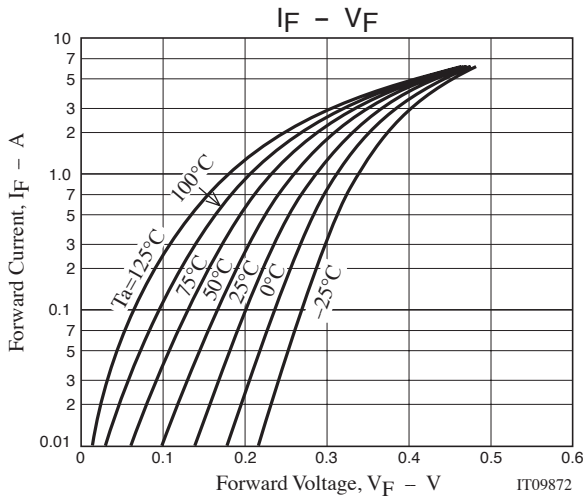
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

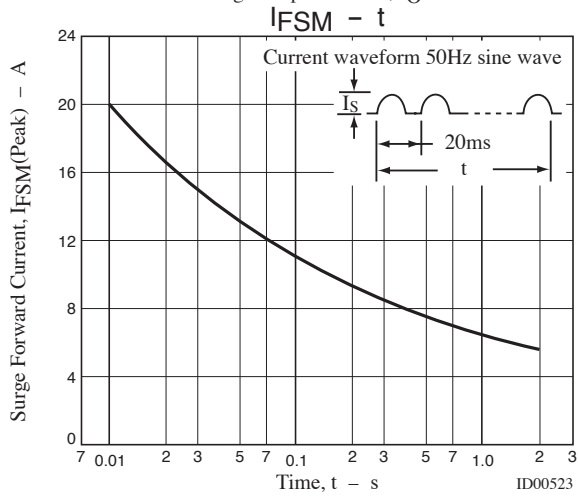
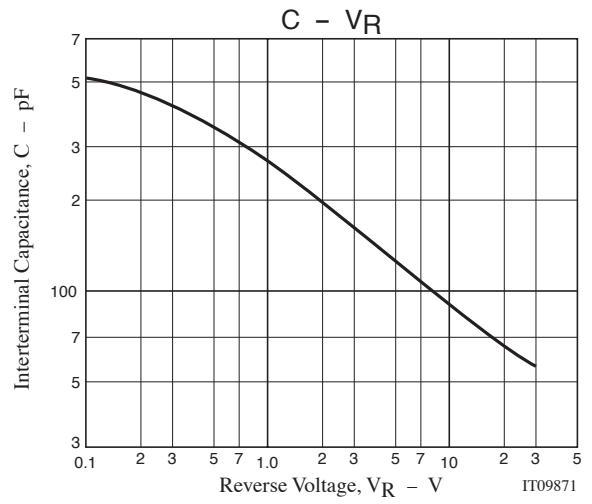
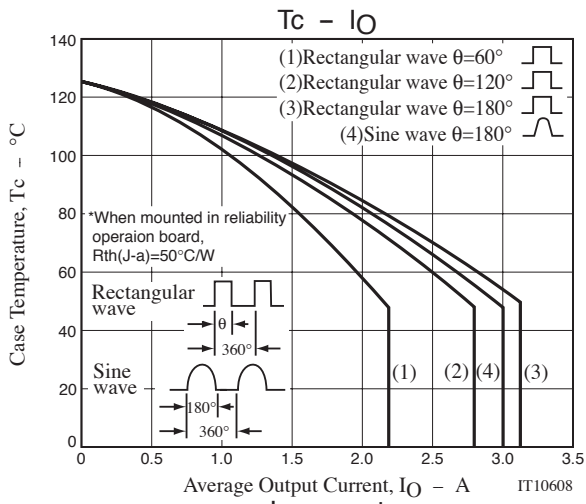
t_{rr} Test Circuit



Ordering Information

Device	Package	Shipping	memo
SS3003CH-TL-E	CPH6	3,000pcs./reel	Pb-Free
SS3003CH-TL-W	CPH6	3,000pcs./reel	Pb-Free and Halogen Free





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