DUSEU

Schottky Barrier Diode

30 V, 0.5 A, Low I_R

SBE805

Features

- Low Forward Voltage (V_F Max = 0.55 V)
- Fast Reverse Recovery Time (t_{rr} Max = 10 ns)
- 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
- This Device is Pb–Free and Halide Free

Specifications

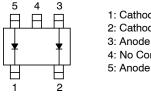
Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	-	30	V
Nonrepetitive Peak Reverse Surge Voltage	V _{RSM}	-	35	V
Average Output Current	Ι _Ο	-	500	mA
Surge Forward Current	I _{FSM}	50 Hz sine wave, 1 cycle	5	А
Junction Temperature	Tj	-	– 55 to +125	°C
Storage Temperature	T _{stg}	-	– 55 to +125	°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.



CPH5 CASE 318BC

ELECTRICAL CONNECTION



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

MARKING DIAGRAM



SE = Specific Device Code

ORDERING INFORMATION

Device	Package	Shipping [†]
SBE805-TL-W	CPH–5 (Pb-Free and Halogen Free)	3000 / Tape & Reel

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

ABSOLUTE MAXIMUM RATINGS at Ta = 25°C (Value per element)

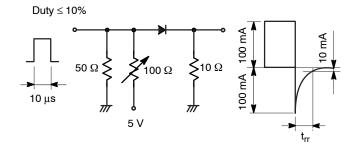
SBE805

ELECTRICAL CHARACTERISTICS at Ta = 25°C (Value per element)

			Ratings			
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Reverse Voltage	V _R	I _R = 150 μA	30	-	-	V
Forward Voltage	V _F	I _F = 500 mA	-	-	0.55	V
Reverse Current	I _R	V _R = 15 V	-	-	30	μA
Interterminal Capacitance	С	V _R = 10 V, f = 1 MHz	-	16	-	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 100 mA, See specified Test Circuit.	-	-	10	ns
Thermal Resistance	Rth _(j-a)		-	300	-	°C/W

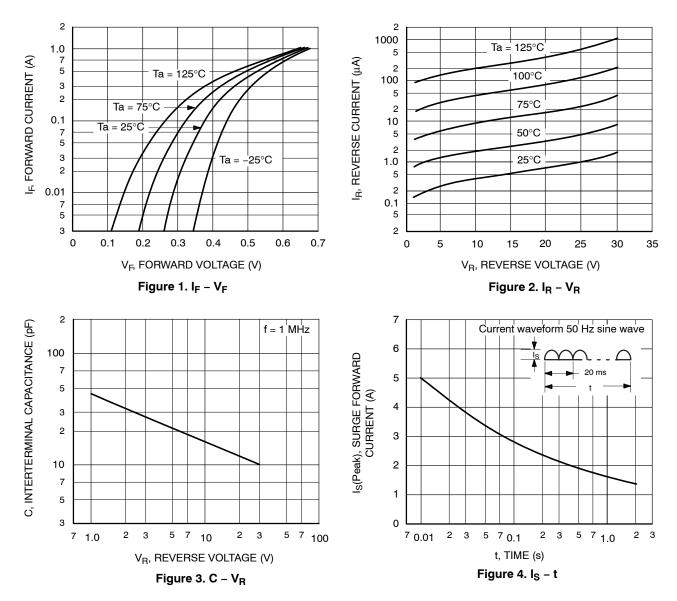
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

t_{rr} Test Circuit



SBE805

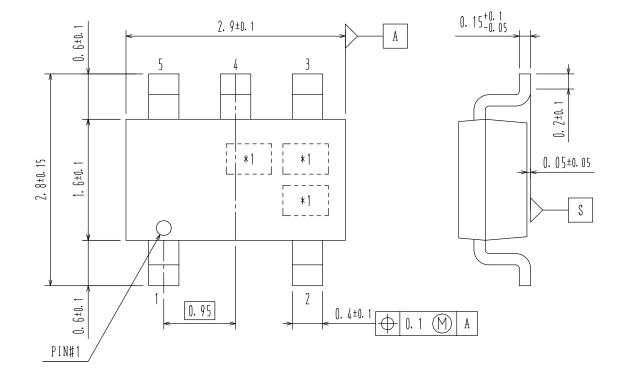
TYPICAL CHARACTERISTICS

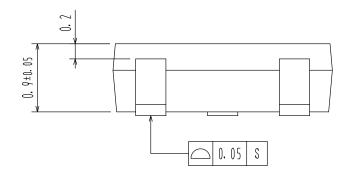




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DATE 30 NOV 2011





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