SB10015M

Schottky Barrier Diode 15V, 1A, Low IR, Single MCPH3



Applications

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

Features

- Small switching noise
 Halogen free compliance
- Low leakage current and high reliability due to highly reliable planar structure
- Ultrasmall package permitting applied sets to be small and slim (mounting height 0.85mm)

Specifications

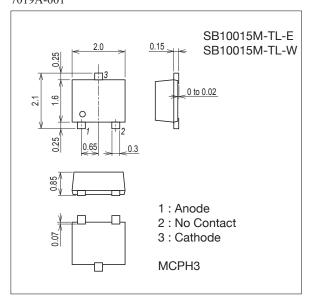
Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Repetitive Peak Reverse Voltage	V _{RRM}		15	V
Nonrepetitive Peak Reverse Surge Voltage	VRSM		17	V
Average Output Current	lo		1.0	А
Surge Forward Current	IFSM	50Hz sine wave, 1 cycle	10	А
Junction Temperature	Тј		-55 to +150	°C
Storage Temperature	Tstg		-55 to +150	°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) 7019A-001



Product & Package Information

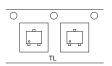
PackageJEITA, JEDEC

: MCPH3 : SC-70, SOT-323

• Minimum Packing Quantity : 3,000 pcs./reel

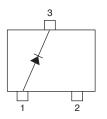
Packing Type : TL

Marking





Electrical Connection



ORDERING INFORMATION

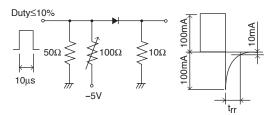
See detailed ordering and shipping information on page 2 of this data sheet.

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
		Conditions	min	typ	max	Unit
Reverse Voltage	VR	I _R =0.1mA	15			V
Forward Voltage	VF1	IF=0.5A		0.43	0.48	V
	V _F 2	IF=1.0A		0.49	0.54	V
Reverse Current	IR	V _R =7.5V			3	μΑ
Interterminal Capacitance	С	V _R =10V, f=1MHz		20		pF
Reverse Recovery Time	t _{rr}	IF=IR=100mA, See specified Test Circuit.			10	ns
Thermal Resistance	Rth(j-a)	When mounted in Cu-foiled area of	185		°C/W	
		0.72mm ² ×0.03mm on glass epoxy substrate		165		0/10

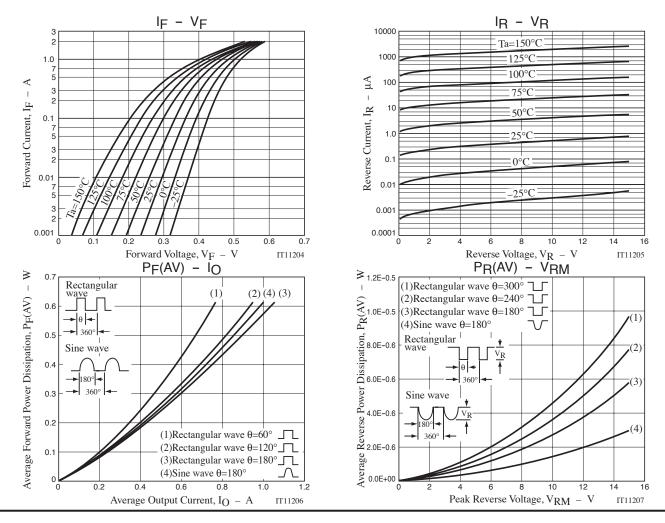
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

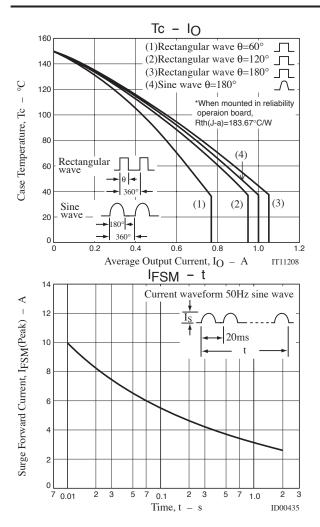
trr Test Circuit

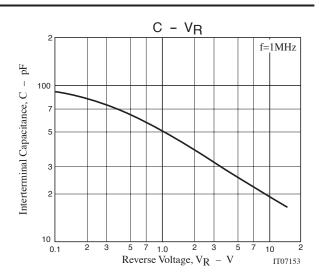


Ordering Information

Device	Package	Shipping	memo	
SB10015M-TL-E	MCPH3	3,000pcs./reel	Pb-Free	
SB10015M-TL-W	MCPH3	3,000pcs./reel	Pb-Free and Halogen Free	

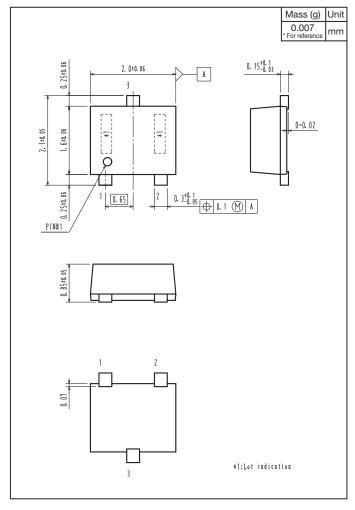




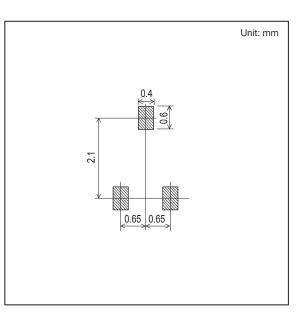


Outline Drawing

SB10015M-TL-E, SB10015M-TL-W



Land Pattern Example



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