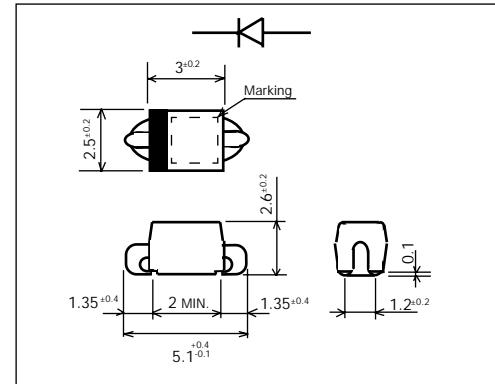


SC016 (1.0A)

(200V to 600V / 1.0A)

GENERAL USE RECTIFIER DIODE

■ Outline drawings



■ Features

- Surface-mount device
- High reliability

■ Applications

- General purpose rectifier applications
- Relay control use

■ Marking

Type name	Abridged type name
SC016-2	BB
SC016-4	BC
SC016-6	BD

The marking diagram shows a black rectangle with two 'B's and two empty boxes. An arrow points to the bottom-left box with the label 'Cathode mark'.

■ Maximum ratings and characteristics

● Absolute maximum ratings

Item	Symbol	Conditions	Rating			Unit
			-2	-4	-6	
Repetitive peak reverse voltage	V _{RRM}		200	400	600	V
Non-repetitive peak reverse voltage	V _{RSM}		200	400	600	V
Average output current	I _O	Resistive load Ta=40°C	1.0 *			A
Surge current	I _{FSM}	Sine wave 10ms	40			A
Operating junction temperature	T _j		-40 to +150			°C
Storage temperature	T _{stg}		-40 to +150			°C

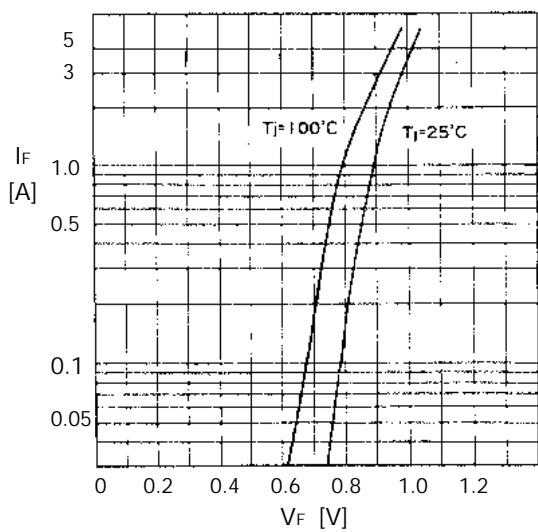
* Mounted to glass fabric base epoxy resin printed circuits, land (15mm x 15mm)

● Electrical characteristics (Ta=25°C Unless otherwise specified)

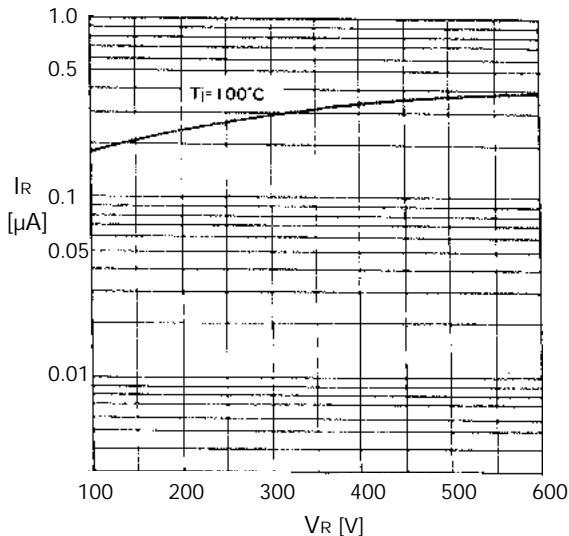
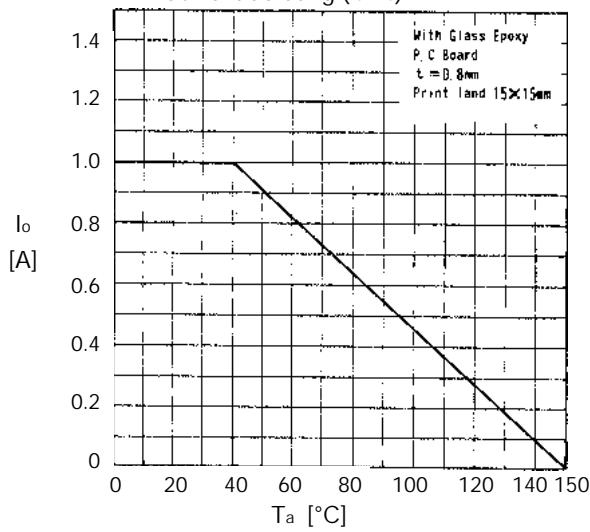
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _{FM}	I _{FM} =2.0A	1.1	V
Reverse current	I _{RRM}	V _R =V _{RRM}	10	µA
Thermal resistance	R _{th(j-a)}	Junction to ambient	120*	°C/W

■ Characteristics

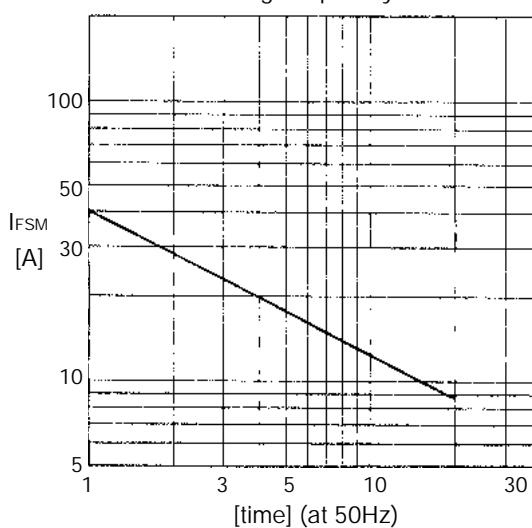
Forward characteristics



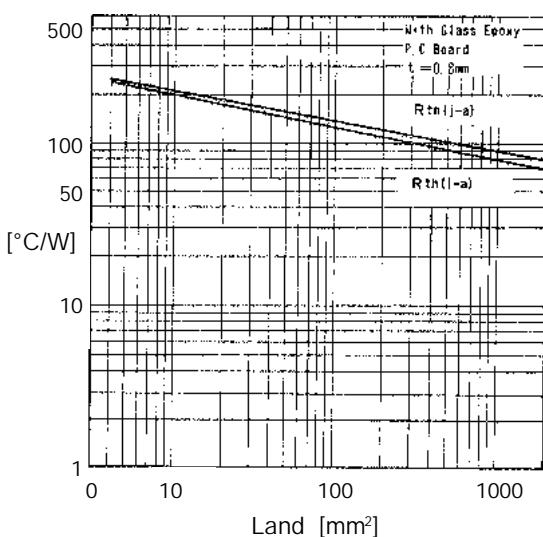
Reverse characteristics

Current derating (I_0-T_a)

Surge capability



Thermal resistance print land



Transient thermal impedance

