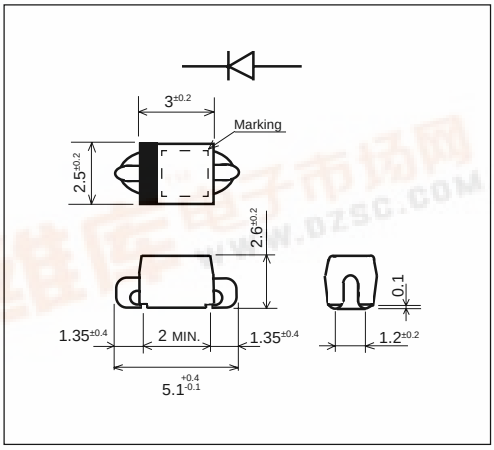
SC802-09 (1A)

(90V / 1A)

SCHOTTKY BARRIER DIODE

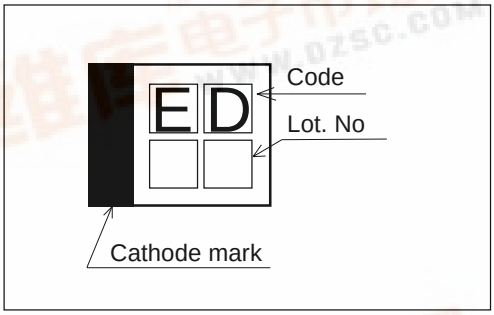
■ Outline drawings, mm



■ Features

- Surface-mount device
- Low V_F
- Super high speed switching
- High reliability by planer design

■ Marking



■ Applications

- High speed switching

■ Maximum ratings and characteristics

● Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		90	V
Non-repetitive peak reverse voltage	V_{RSM}	tw=500ns, duty=1/40	100	V
Average output current	Io	Resistive load Tl=110°C	1.0*	A
Surge current	I_{FSM}	Sine wave 10ms	30	A
Operating junction temperature	T_j		-40 to +150	°C
Storage temperature	T_{stg}		-40 to +150	°C

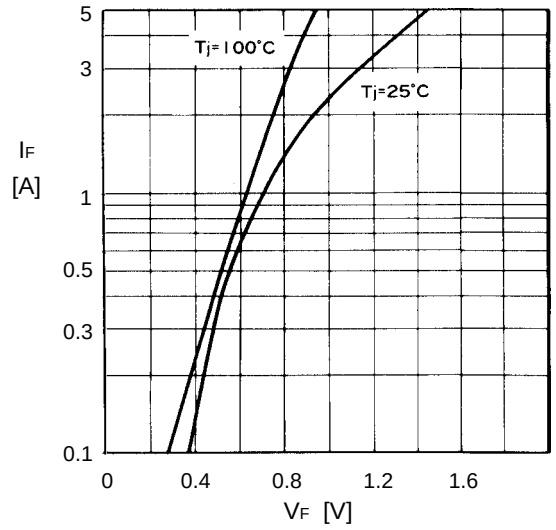
* Mounted on printed cirrcuit boad (15 x 15mm)

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

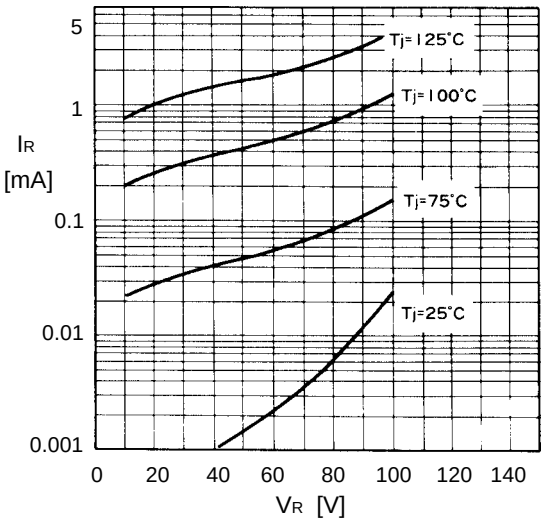
Item	Symbol	**Conditions**	**Max.**	Unit
Forward voltage drop	V_{FM}	I_{FM}=1A	0.85	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	2.0	mA
Thermal resistance	$R_{th(j-l)}$	Junction to lead	15*	°C/W

■ Characteristics

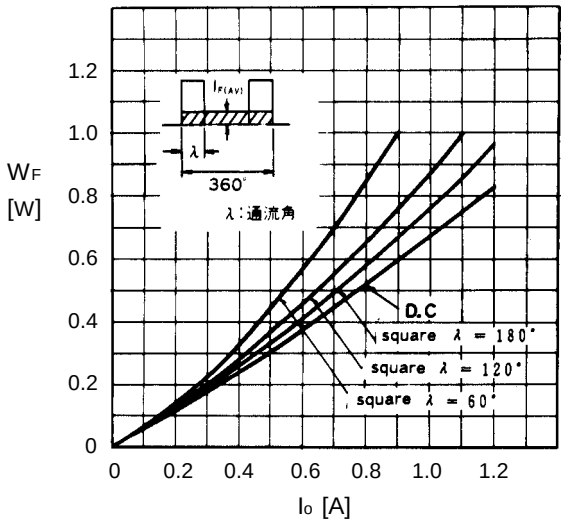
Forward characteristics



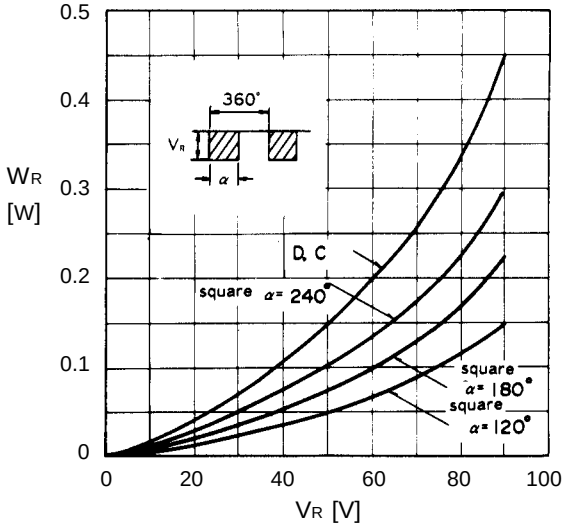
Reverse characteristics



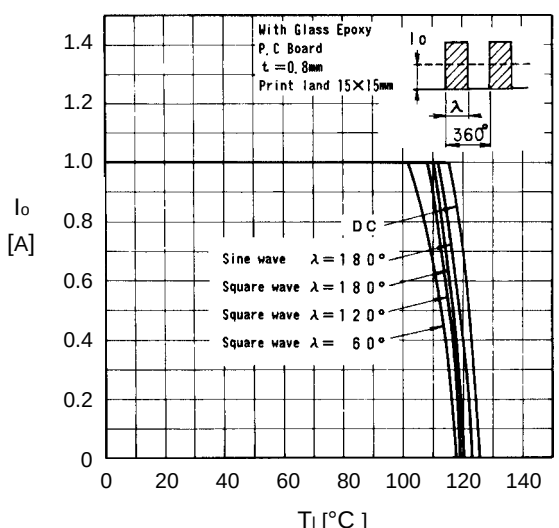
Forward power dissipation



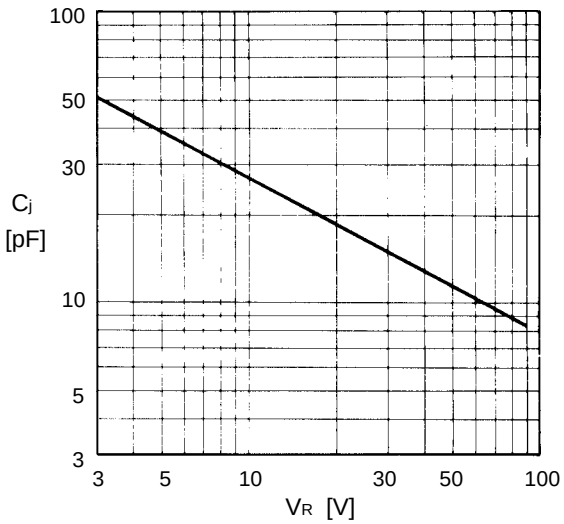
Reverse power dissipation



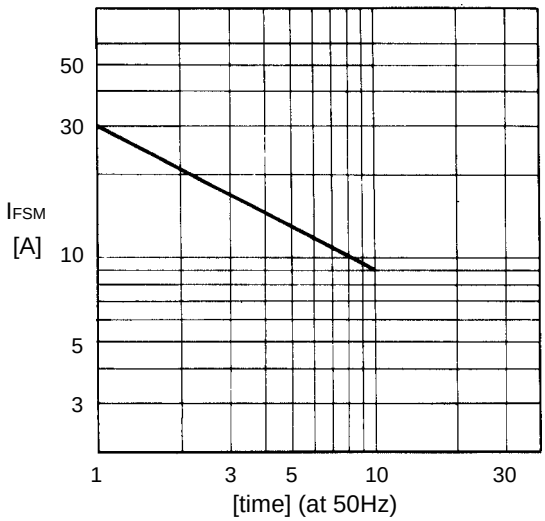
Current derating (Io -Tl)



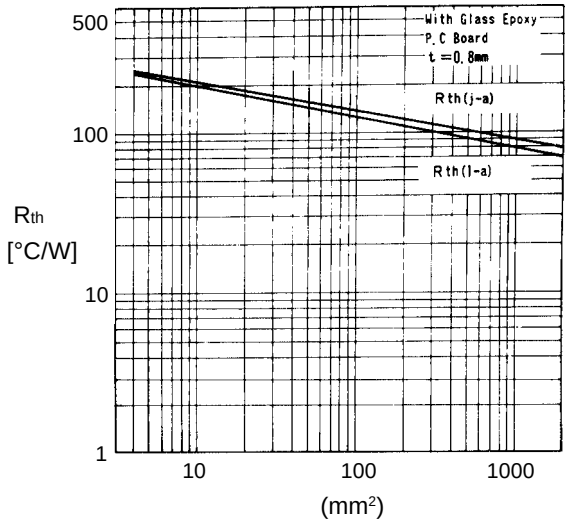
Junction capacitance characteristics



Surge capability



Thermal resistance print land



Transient thermal impedance