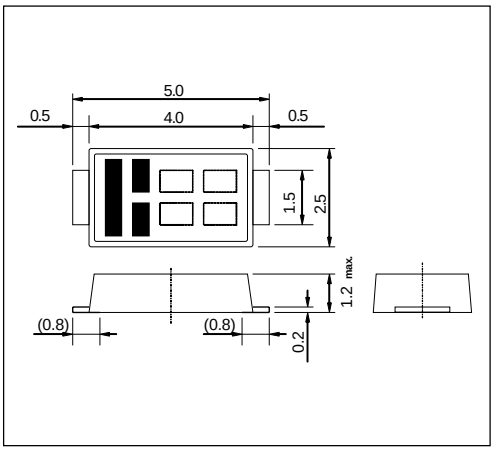
SD832-04 (40V / 2.0A)

Fuji Electric

SCHOTTKY BARRIER DIODE

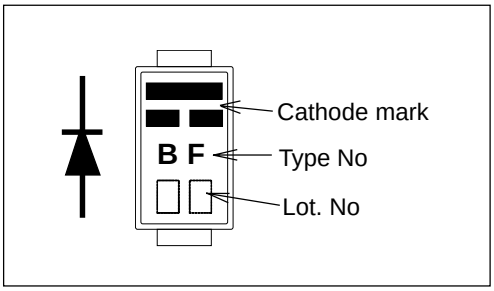
■ Outline drawings, mm



■ 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 (at Tc=25°C unless otherwise specified)

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		40	V
Average output current	Io	Square wave duty=1/2 Tl=120°C	2.0	A
Surge current	I_{FSM}	Sine wave 10ms, 1shot	70	A
Operating junction temperature	T_j		150	°C
Storage temperature	T_{stg}		-55 to +150	°C

● Electrical characteristics (at Tc=25°C unless otherwise specified)

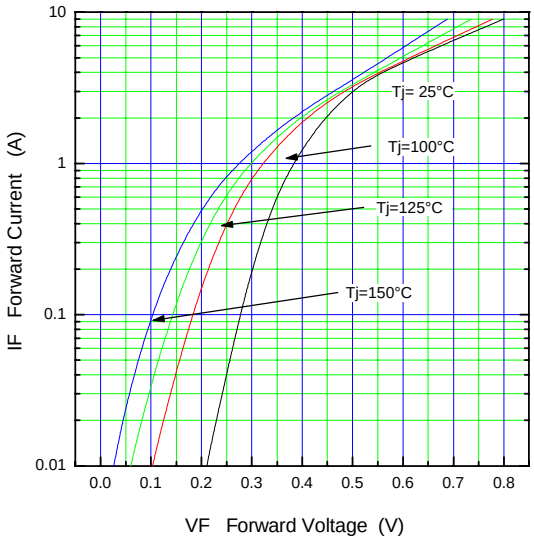
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	I_{FM}=2.0A	0.51	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	1.0	mA
Thermal resistance	$R_{th(j-l)}$	Junction to lead	18	°C/W

● Mechanical characteristics

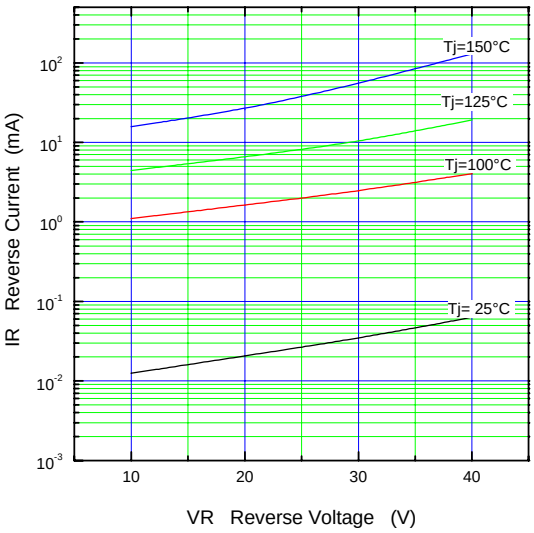
Approximate mass	0.035	g

■ Characteristics

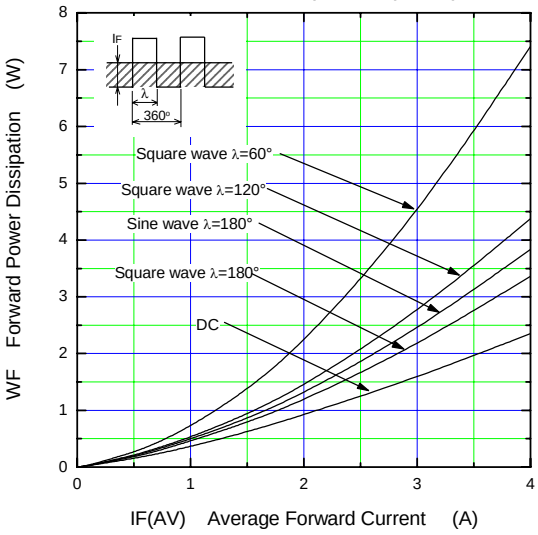
Forward Characteristic(typ.)



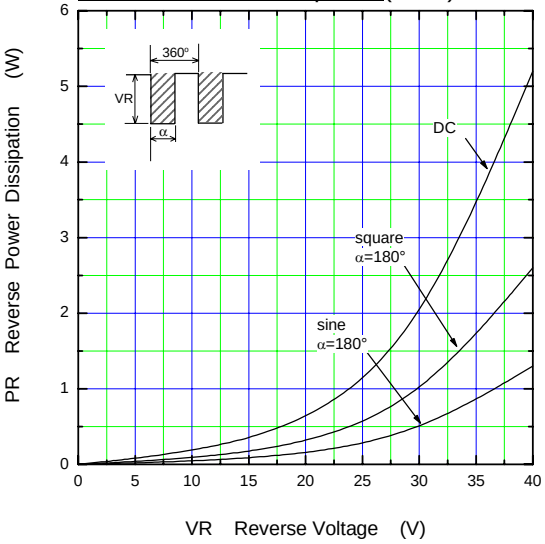
Reverse Characteristic (typ.)



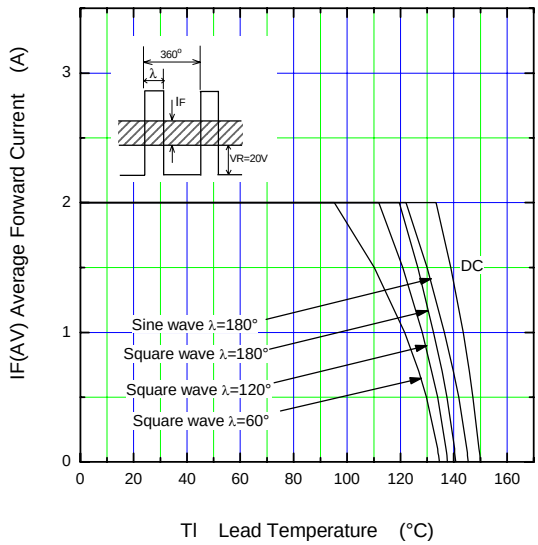
Forward Power Dissipation (max.)



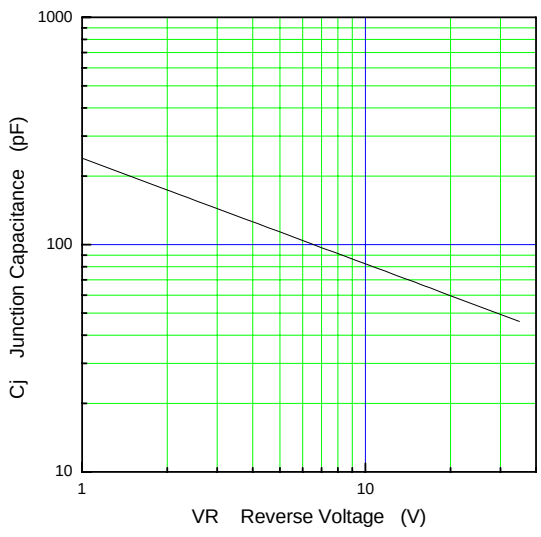
Reverse Power Dissipation(max.)



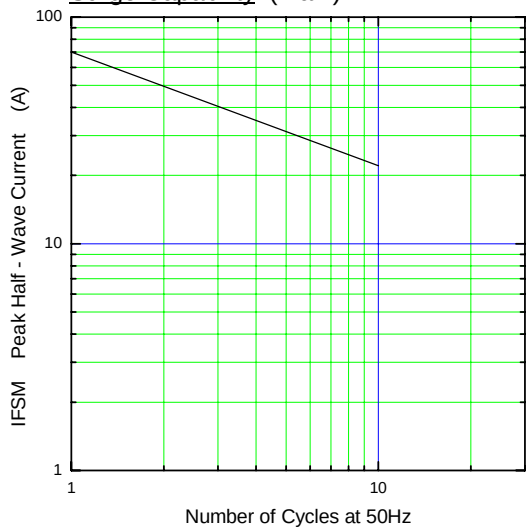
Current Derating (IF(AV)-Tl) (max.)



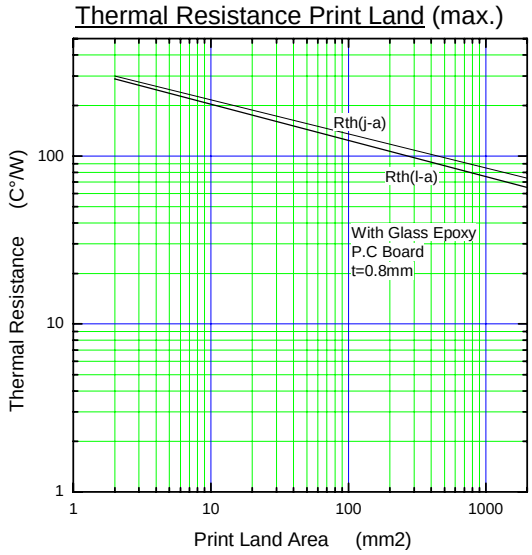
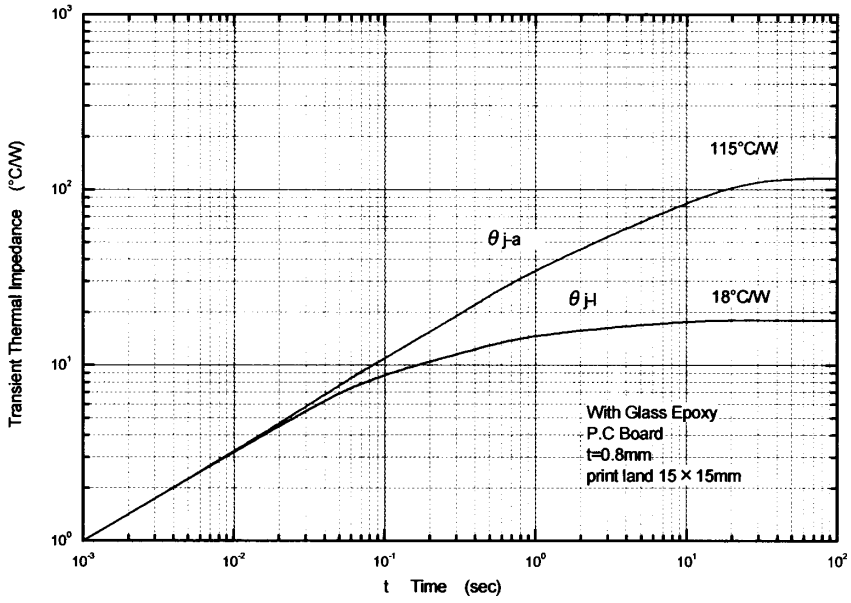
Junction Capacitance Characteristic (typ.)



Surge Capability (max.)



Thermal Resistance Print Land (max.)



Transient Thermal Impedance (max.)