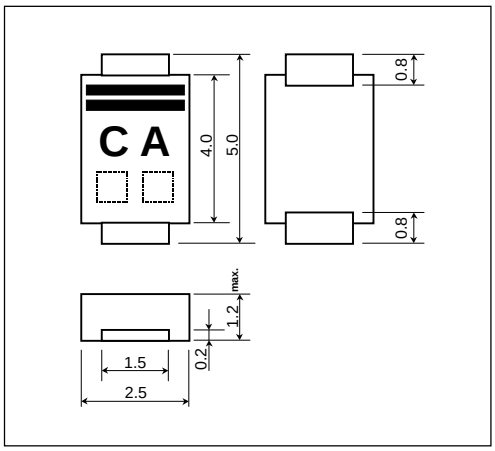
SD883-02 (20V / 3.0A)

SCHOTTKY BARRIER DIODE

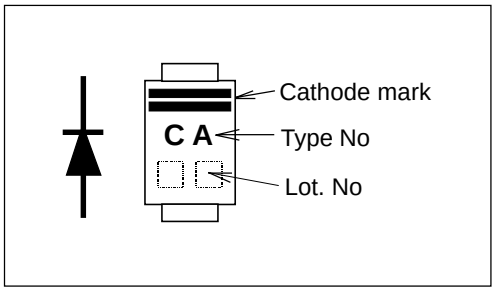
■ Outline drawings, mm



■ 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

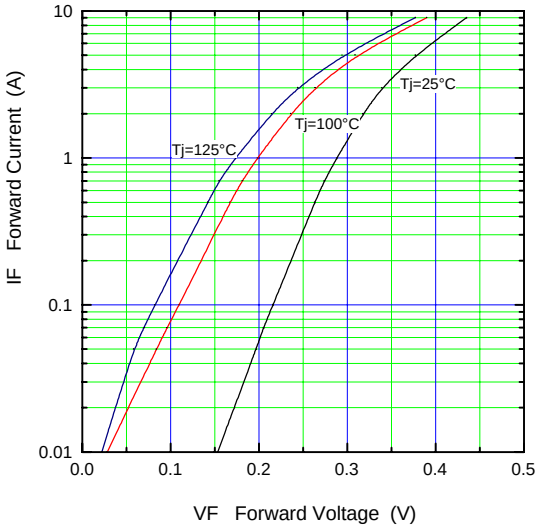
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		20	V
Non-repetitive peak reverse voltage	V_{RSM}	tw=500ns, duty=1/40	20	V
Average output current	Io	square wave duty=1/2 Tl=106°C	3.0	A
Surge current	I_{FSM}	Sine wave 10ms, 1shot	70	A
Operating junction temperature	T_j		-40 to +125	°C
Storage temperature	T_{stg}		-40 to +125	°C

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

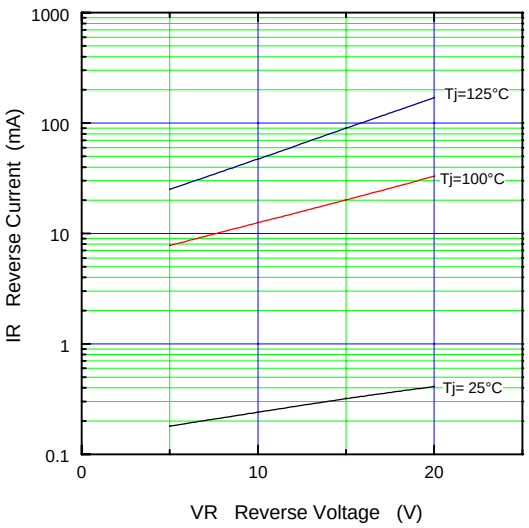
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	I_{FM}=3.0A	0.39	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	2.0	mA
Thermal resistance	$R_{th(j-l)}$	Junction to lead	12	°C/W

■ Characteristics

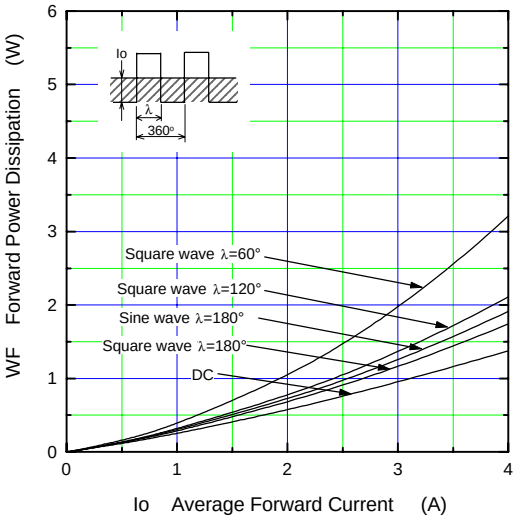
Forward Characteristic (typ.)



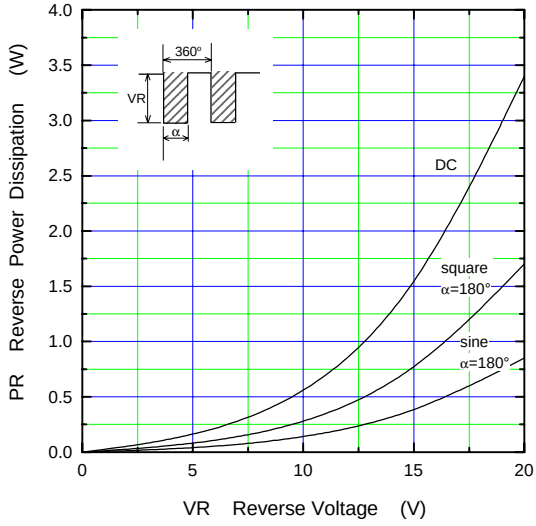
Reverse Characteristic (typ.)



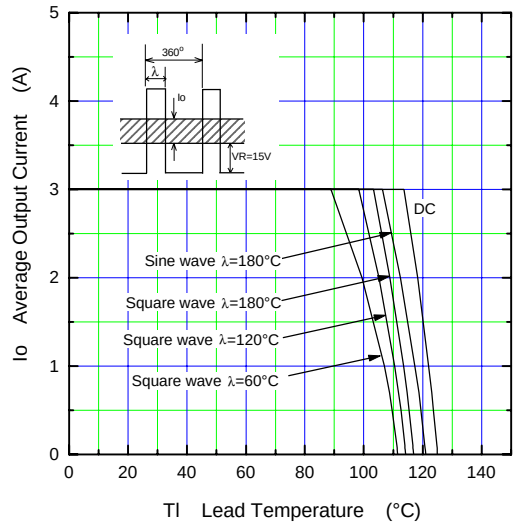
Forward Power Dissipation



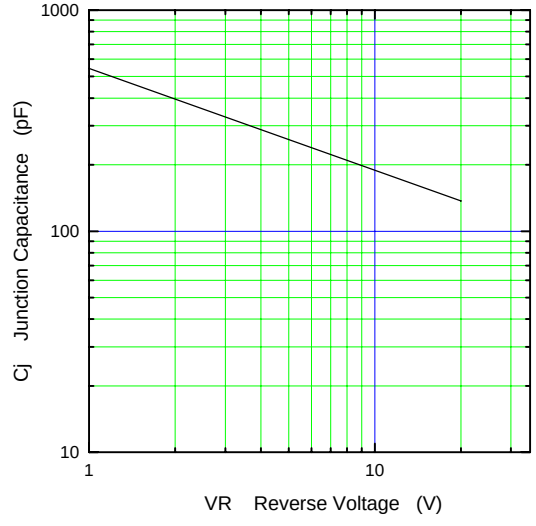
Reverse Power Dissipation



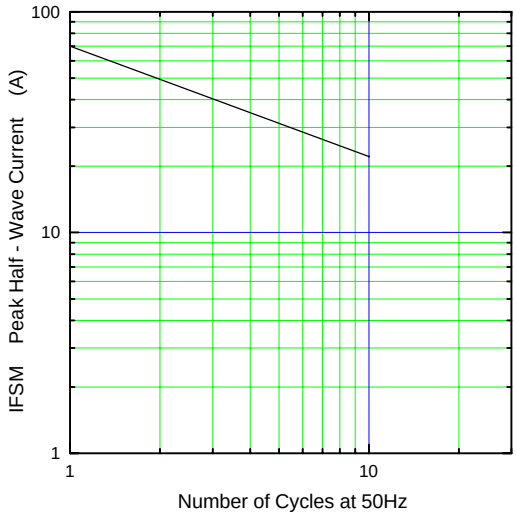
Current Derating (Io-Tl)



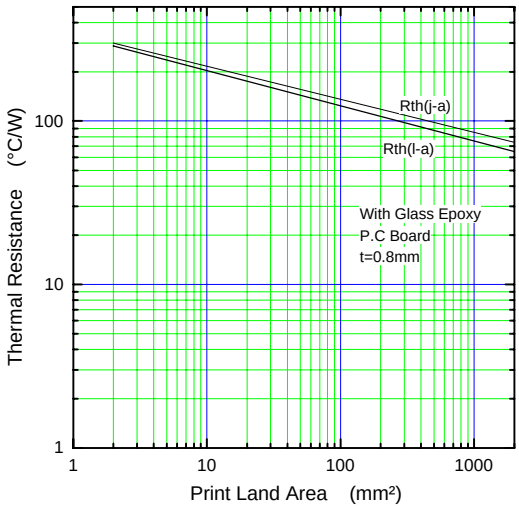
Junction Capacitance Characteristic (typ.)



Surge Capability



Thermal Resistance Print Land



Transient Thermal Impedance