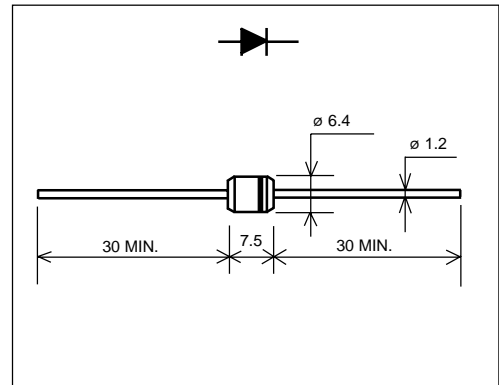


## SCHOTTKY BARRIER DIODE

### Outline drawings, mm



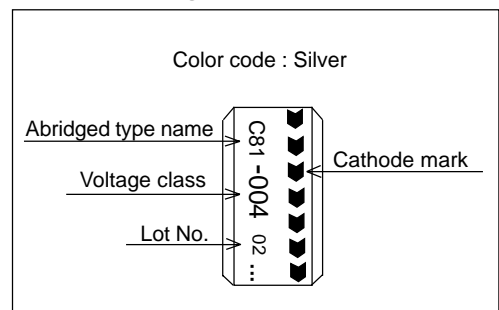
### Features

- Low  $V_F$
- Super high speed switching
- High reliability by planer design

### Applications

- High speed power switching

### Marking



### Maximum ratings and characteristics

- Absolute maximum ratings

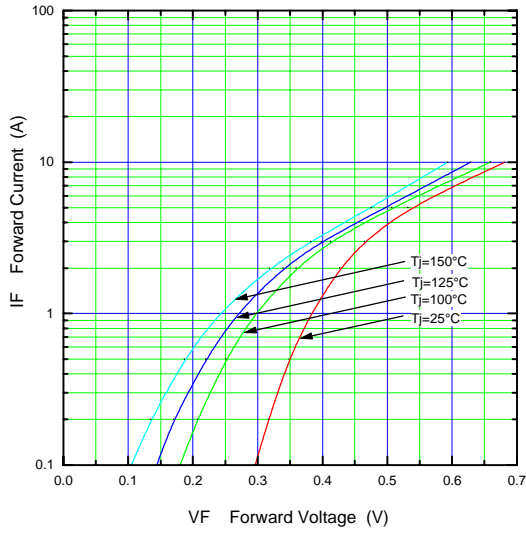
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	$V_{RRM}$		40	V
Average forward current	$I_{F(AV)}$	Square wave, duty=1/2 $T_I=130^{\circ}\text{C}$	3.0	A
Surge current	$I_{FSM}$	Sine wave 10ms	120	A
Operating junction temperature	$T_j$		-40 to +150	$^{\circ}\text{C}$
Storage temperature	$T_{stg}$		-40 to +150	$^{\circ}\text{C}$

- Electrical characteristics ( $T_a=25^{\circ}\text{C}$  Unless otherwise specified)

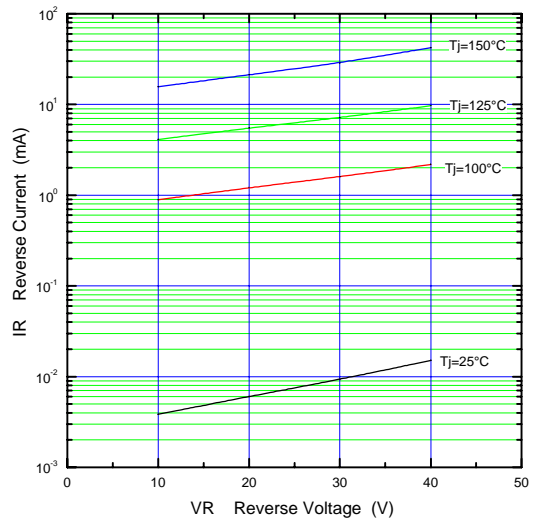
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	$V_{FM}$	$I_{FM}=3.0\text{A}$	0.55	V
Reverse current	$I_{RRM}$	$V_R=V_{RRM}$	5.0	mA

■ Characteristics

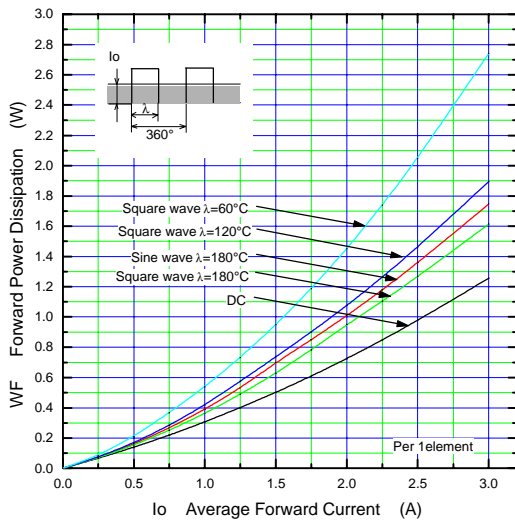
Forward Characteristic (typ.)



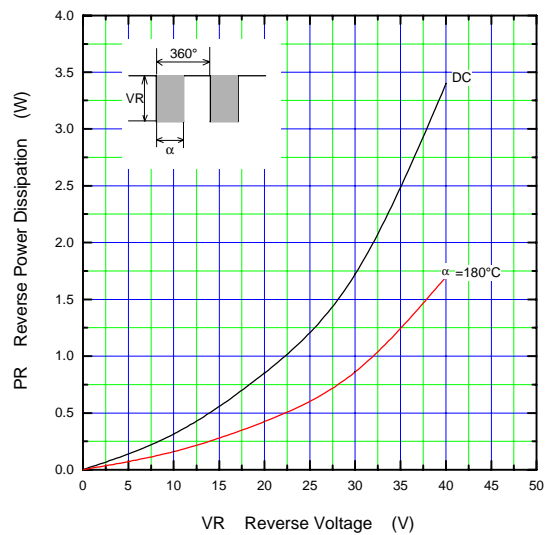
Reverse Characteristic (typ.)



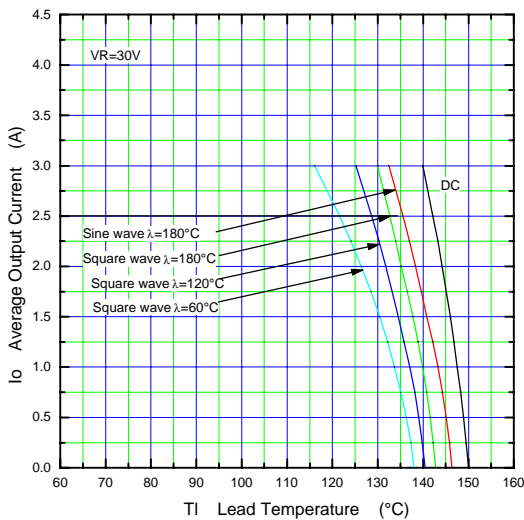
Forward Power Dissipation



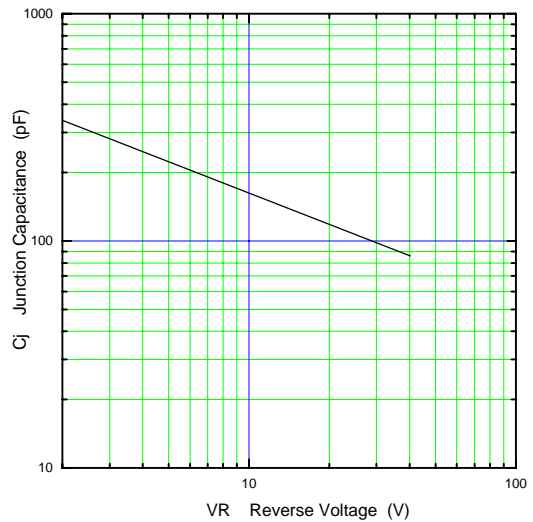
Reverse Power Dissipation



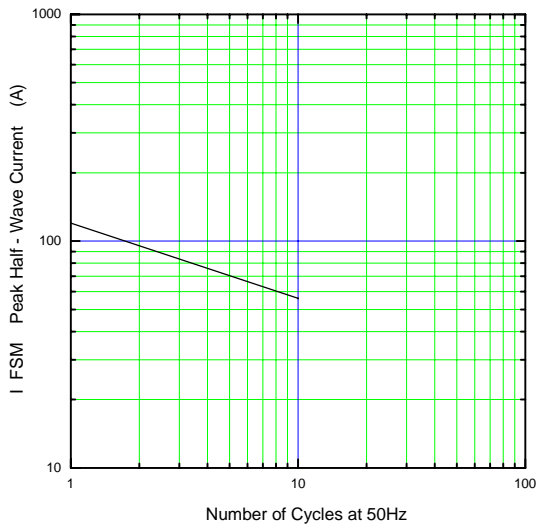
Current Derating (Io-Tl)



Junction Capacitance Characteristic (typ.)



Surge Capability



Transient Thermal Impedance

