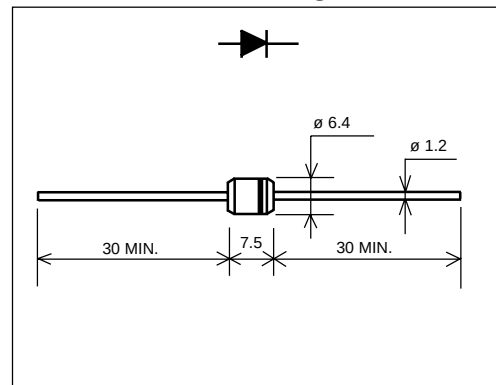


ERC81-004 (3.0A)

(40V / 3.0A)

SCHOTTKY BARRIER DIODE

Outline drawings, mm



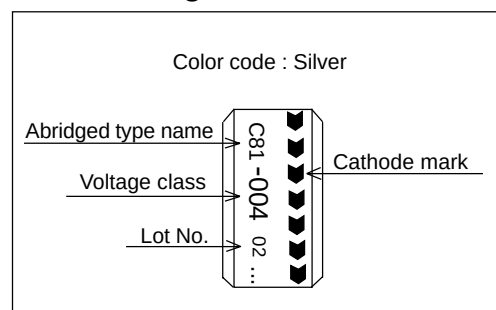
Features

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

Applications

- High speed power switching

Marking



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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	$^{\circ}\text{C}$

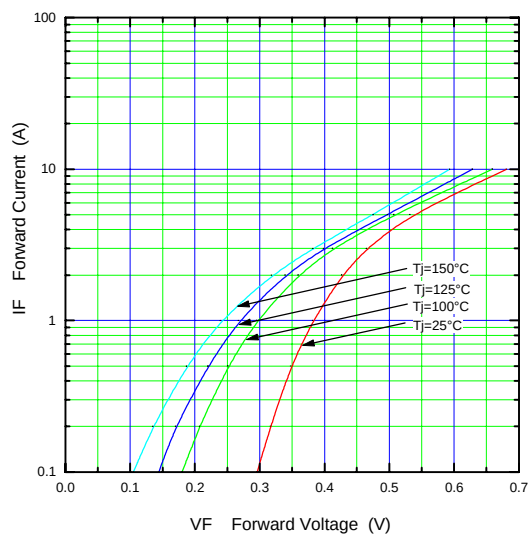
- Electrical characteristics ($T_a=25^{\circ}\text{C}$ Unless otherwise specified)

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

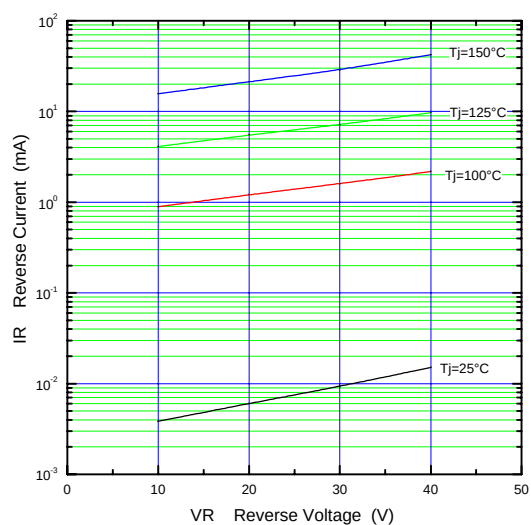
(40V / 3.0A)**ERC81-004 (3.0A)**

■ Characteristics

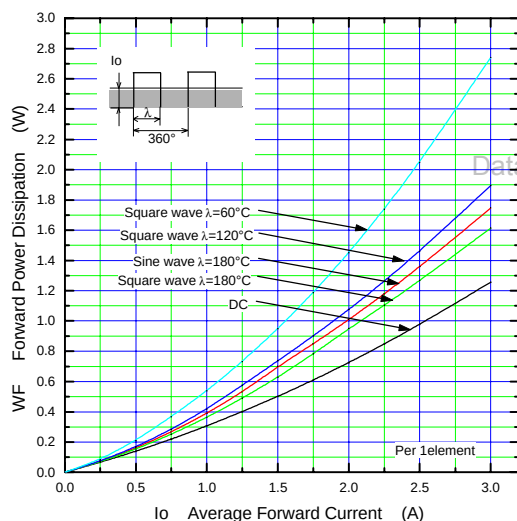
Forward Characteristic (typ.)



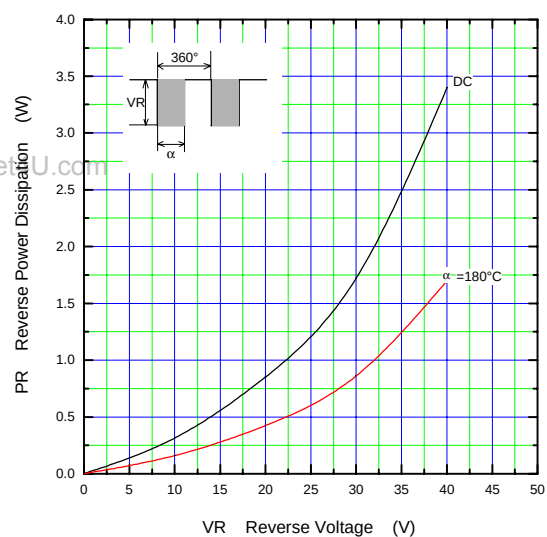
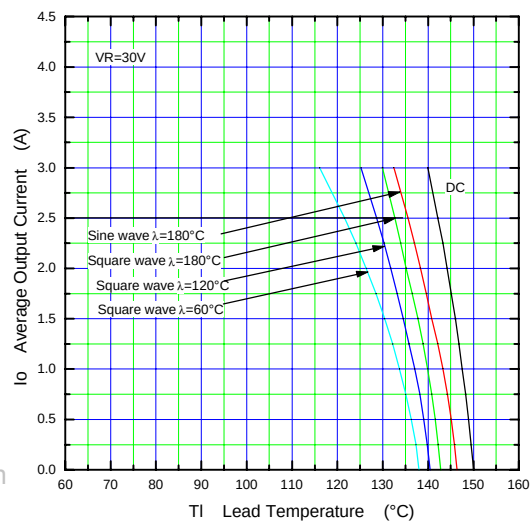
Reverse Characteristic (typ.)



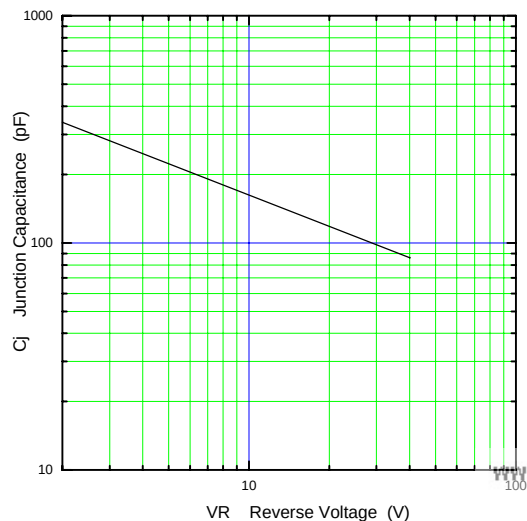
Forward Power Dissipation

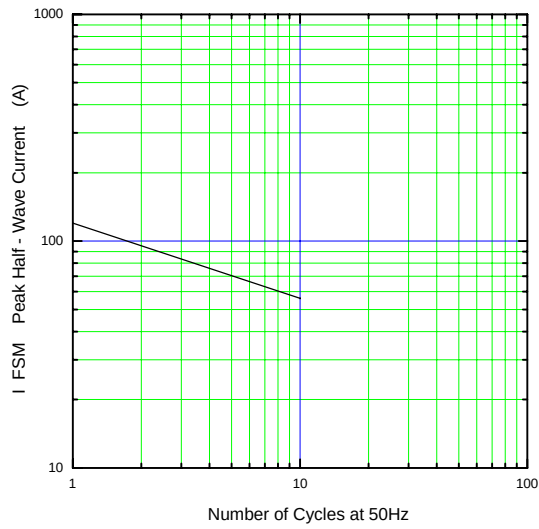


Reverse Power Dissipation

Current Derating (I_o - T_l)

Junction Capacitance Characteristic (typ.)



(40V / 3.0A)**ERC81-004 (3.0A)**Surge CapabilityTransient Thermal Impedance