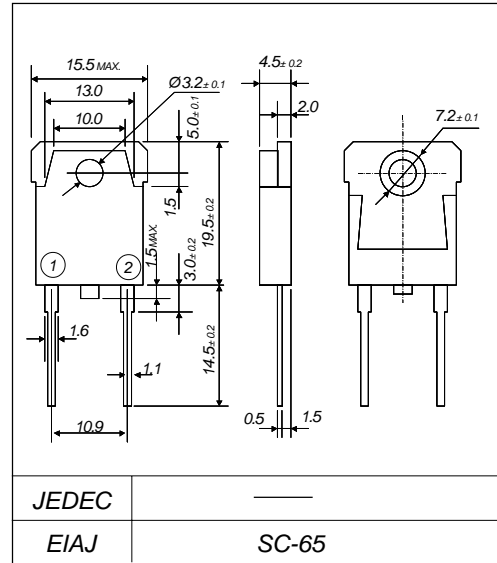


ERD80-004 (15A)

(40V / 15A)

SCHOTTKY BARRIER DIODE

Outline drawings, mm



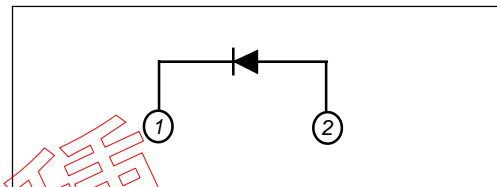
Features

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

Applications

- High speed power switching

Connection diagram



Maximum ratings and characteristics

- Absolute maximum ratings

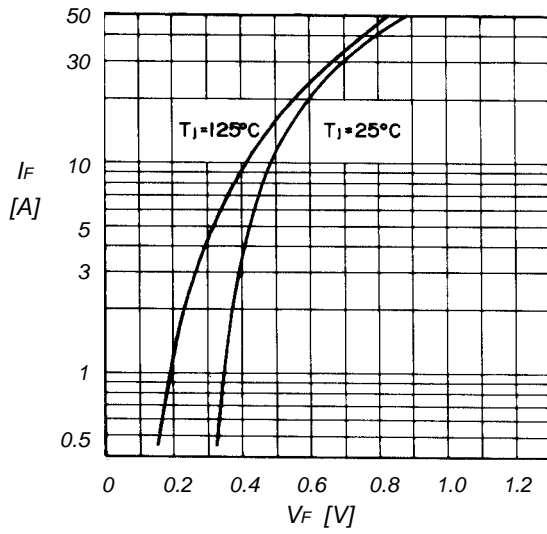
Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		40	V
Non-repetitive peak reverse voltage	V_{RSM}	$tw=500ns, duty=1/40$	48	V
Average output current	I_o	Square wave, $duty=1/2$ $T_c=100^\circ C$	15	A
Surge current	I_{FSM}	Sine wave 10ms	250	A
Operating junction temperature	T_j		-40 to +150	$^\circ C$
Storage temperature	T_{stg}		-40 to +150	$^\circ C$

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

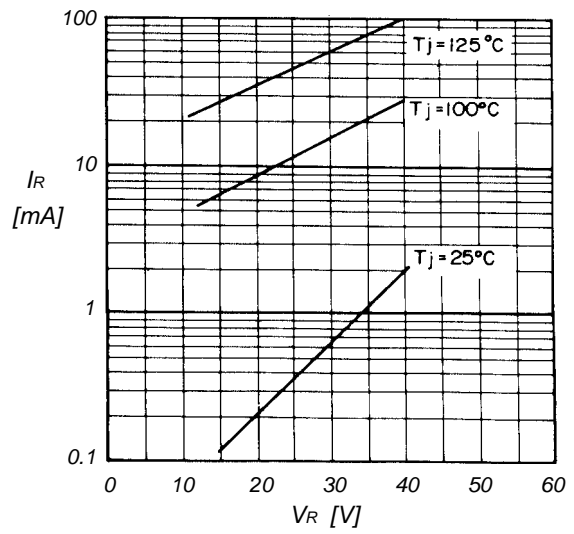
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=12.5A$	0.55	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	10	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	2.0	$^\circ C/W$

Characteristics

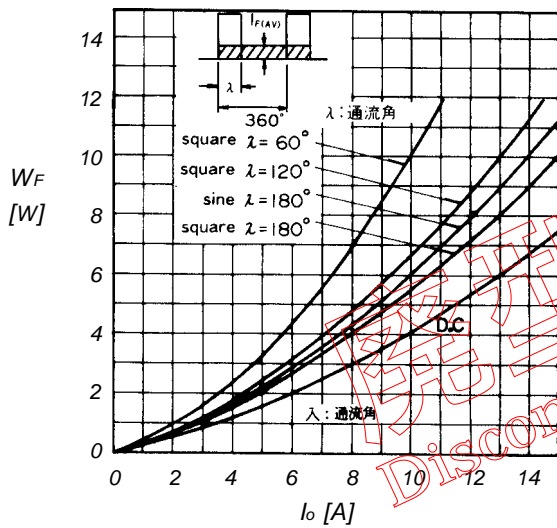
Forward characteristics



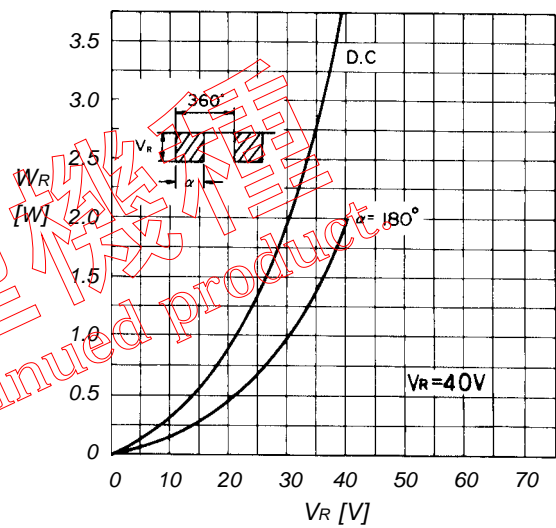
Reverse characteristics



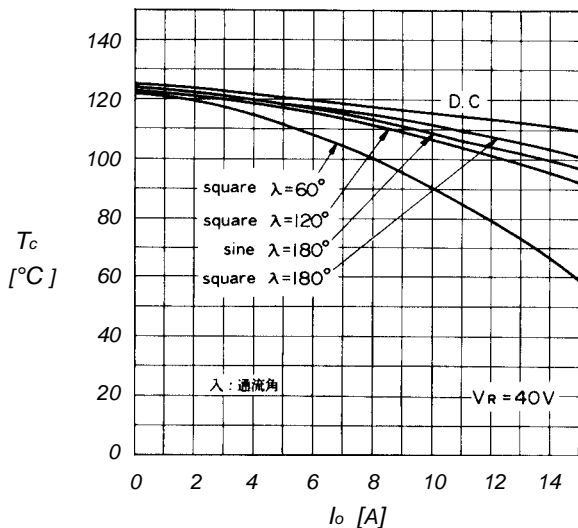
Forward power dissipation



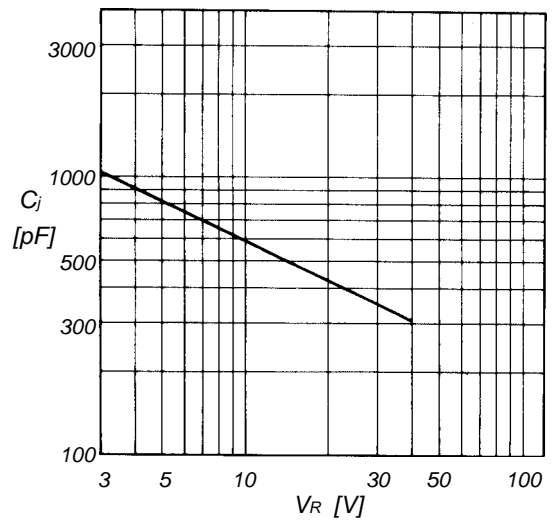
Reverse power dissipation



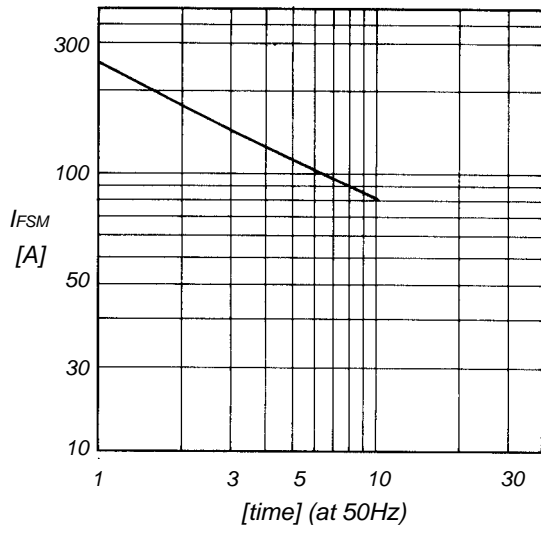
Average output current-case temperature



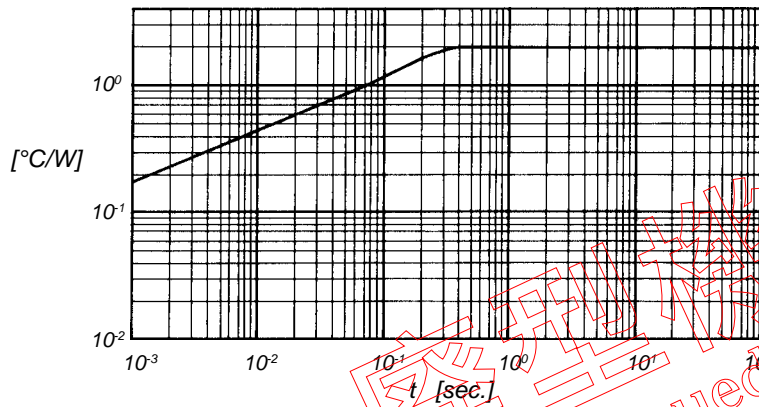
Junction capacitance characteristics



Surge capability



Transient thermal impedance



廢品機種
Discontinued product.