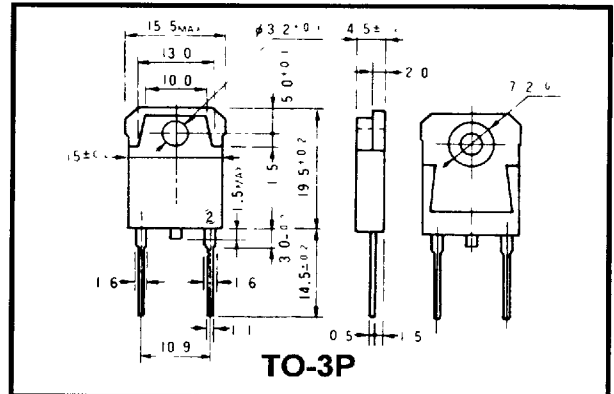


ERD80-004 (15A)

SCHOTTKY BARRIER DIODE

Outline Drawing



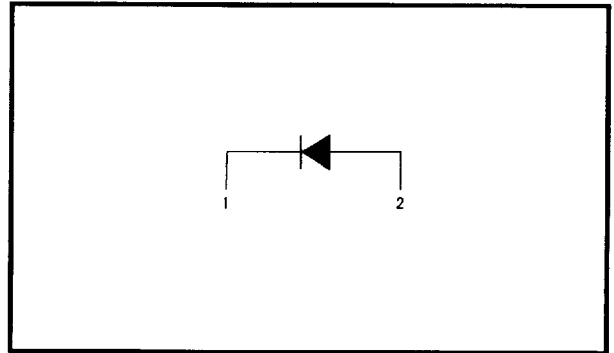
Features

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

Applications

- High speed power switching

Connection Diagram



Maximum Ratings & Characteristics

- Absolute Maximum Ratings

Items	Symbols	Conditions	Ratings	Units
Repetitive Peak Reverse Voltage	V_{RRM}		45	V
Non-Repetitive Peak Reverse Voltage	V_{RSM}	$t_w = 500ns$, duty = 1/40	48	V
Average Forward Current	I_o	$T_c = 100^\circ C$, duty 1/2, Square wave	15	A
Surge Current	I_{FSM}	Sine Wave, 10ms	250	A
Operating Junction Temperature	T_J		-40 to +125	$^\circ C$
Storage Temperature	T_{stg}		-40 to +125	$^\circ C$

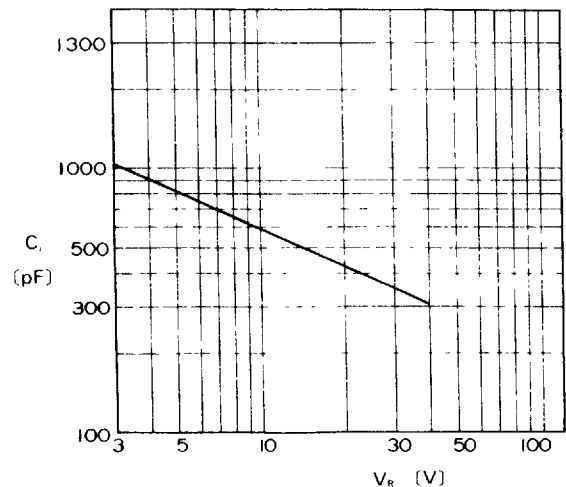
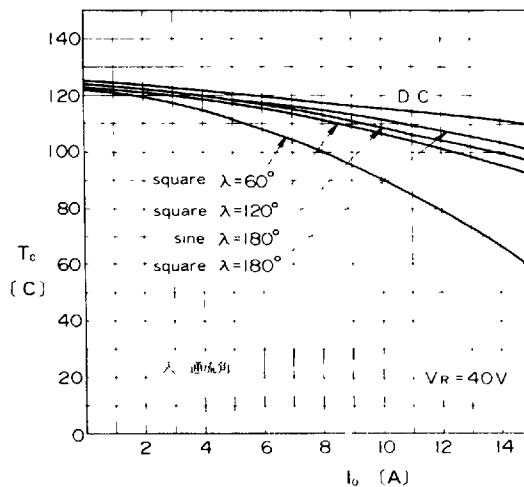
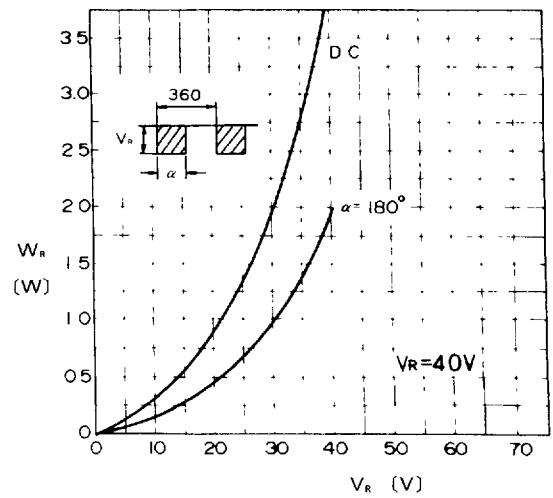
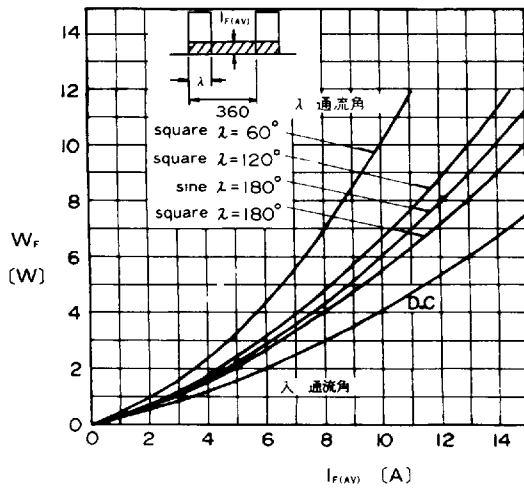
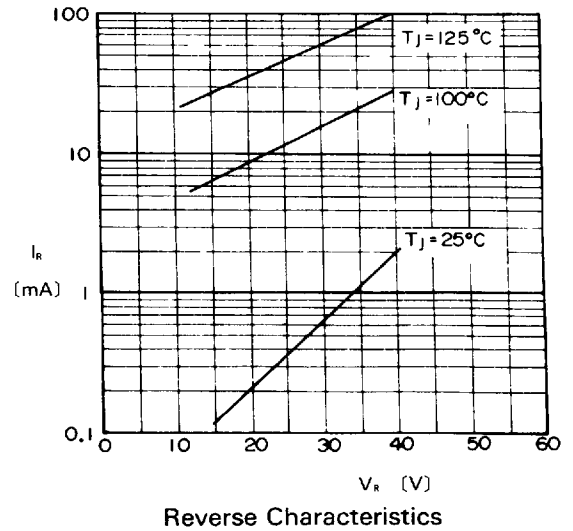
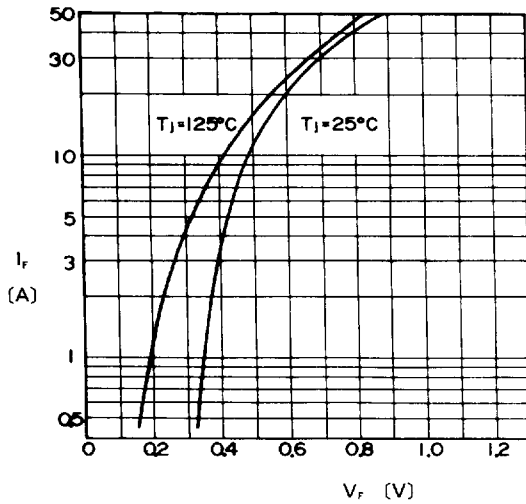
- Electrical Characteristics ($T_a = 25^\circ C$ Unless otherwise specified)

Items	Symbols	Conditions	Ratings	Units
Forward Voltage Drop	V_F	$I_F = 12.5A$	0.55	V
Reverse Current	I_R	$V_R = V_{RRM}$	10.0	mA
Thermal Resistance	$R_{th(j-c)}$	Junction to case	2.0	$^\circ C/W$

2238792 0003967 886

Collmer Semiconductor, Inc.
Phone: (214) 233-1589 - Fax: (214) 233-0481

ERD80-004 (15A)



2238792 0003968 712
Collmer Semiconductor, Inc.
Phone: (214) 233-1589 - Fax: (214) 233-0481