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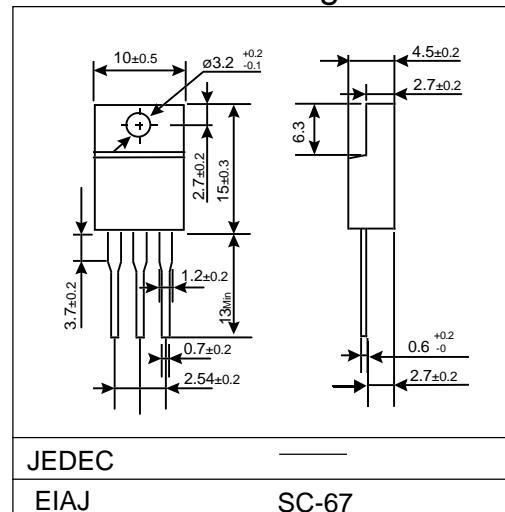
(30V / 5A TO-220F15)

SCHOTTKY BARRIER DIODE

■ Features

- Low VF
- Super high speed switching.
- High reliability by planer design.

■ Outline Drawings



■ Applications

- High speed power switching.

■ Maximum Ratings and Characteristics

• Absolute Maximum Ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V_{RRM}		30	V
Repetitive peak surge reverse voltage	V_{RSM}	$t_w=500\text{ns}, \text{duty}=1/40$	35 * ₁	V
Isolation voltage	V_{iso}	Terminals to Case, AC. 1min.	1500	V
Average output current	I_o	duty=1/2, $T_c=130^\circ\text{C}$ Square wave	5*	A
Surge current	I_{FSM}	Sine wave 10ms	100	A
Operating junction temperature	T_j		+150	°C
Storage temperature	T_{stg}		-40 to +150	°C

* Out put current of centertap full wave connection.

*₁ : Tentative

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

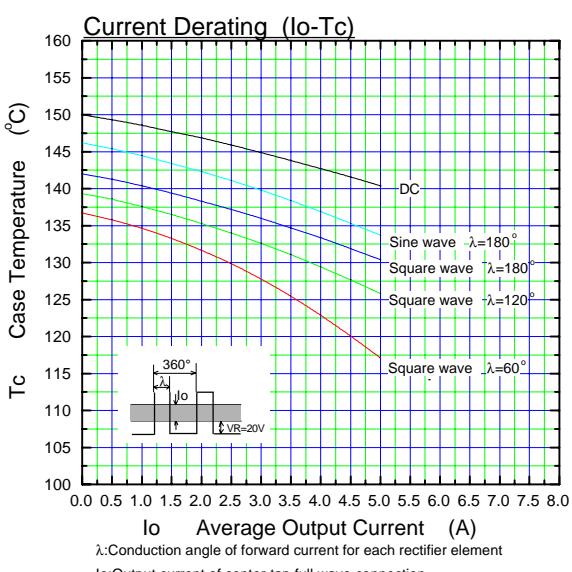
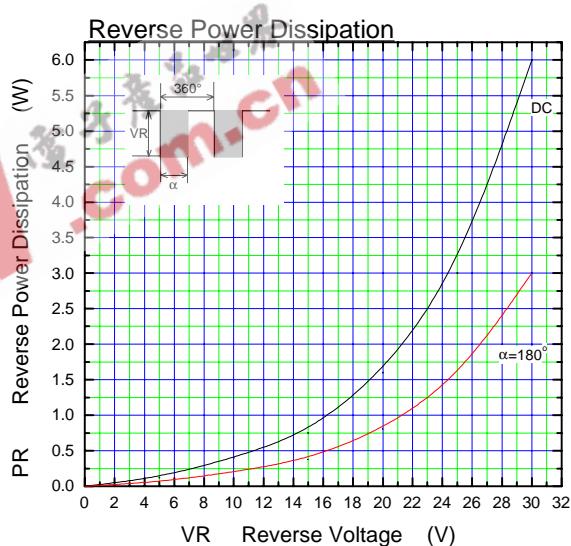
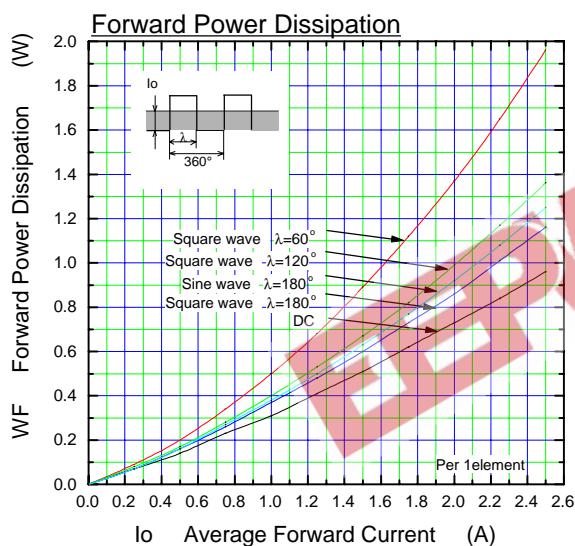
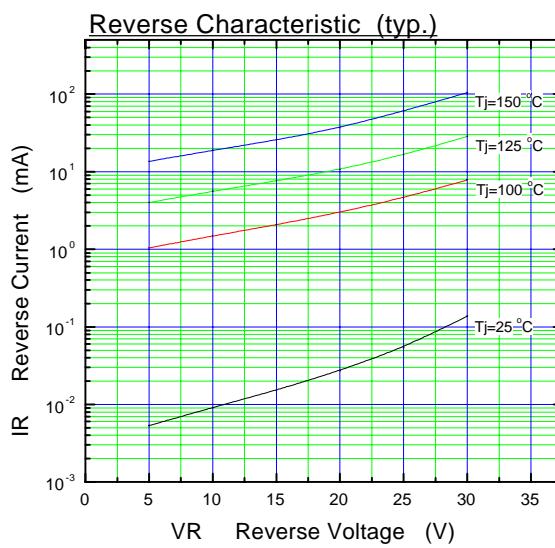
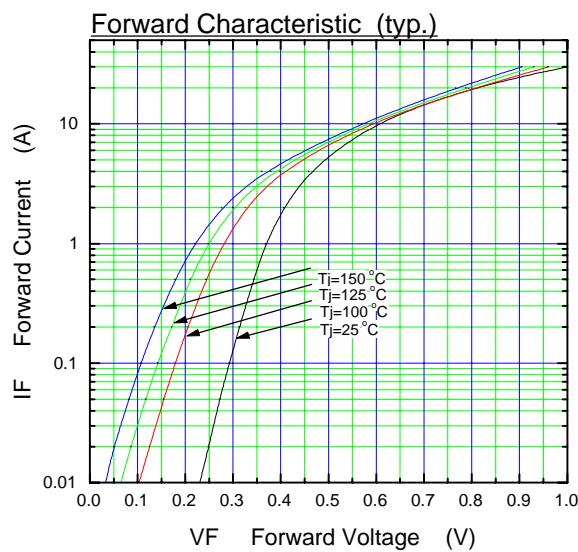
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop **	V_F	$I_F=2.0\text{A}$	0.45	V
Reverse current **	I_R	$V_R=V_{RRM}$	5.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	5.0	°C/W

** Rating per element

• Mechanical Characteristics

Mounting torque	Recommended torque	0.3 to 0.5	N · m
Weight		2.3	g

■ Characteristics



λ : Conduction angle of forward current for each rectifier element
Io: Output current of center-tap full wave connection

