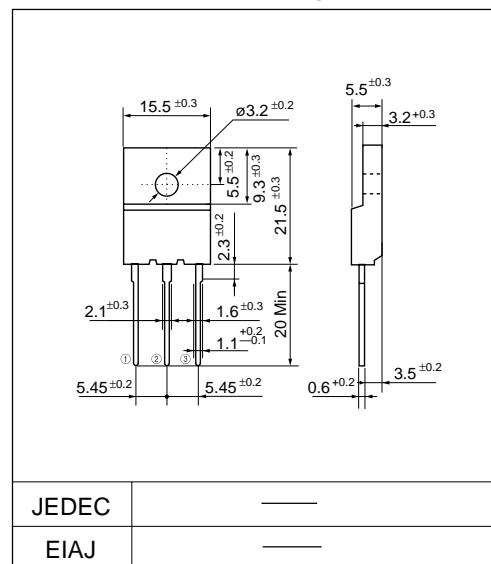


ESAC87M-009R (16A) (90V / 16A)

SCHOTTKY BARRIER DIODE

■ Outline drawings, mm



■ Features

- Insulated package by fully molding
- Low VF
- Super high speed switching
- High reliability by planer design

■ Applications

- High speed power switching

■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	V _{RRM}		90	V
Non-repetitive peak reverse voltage	V _{RSM}	tw=500ns, duty=1/40	100	V
Isolating voltage	V _{iso}	Terminals-to-case, AC. 1min.	1500	V
Average output current	I _o	Square wave, duty=1/2 T _c =115°C	16*	A
Surge current	I _{FSM}	Sine wave 10ms	100	A
Operating junction temperature	T _j		-40 to +150	°C
Storage temperature	T _{stg}		-40 to +150	°C

* Average forward current of centertap full wave connection

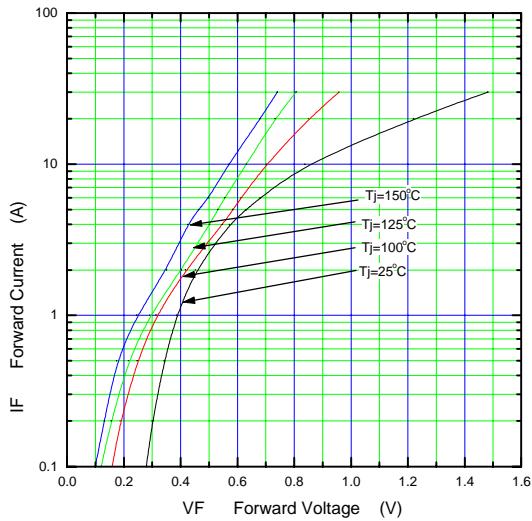
- Electrical characteristics (Ta=25°C Unless otherwise specified)

Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V _{FM}	I _{FM} =6A	0.9	V
Reverse current	I _{RRM}	V _R =V _{RRM}	10	mA
Thermal resistance	R _{th(j-c)}	Junction to case	2.0	°C/W

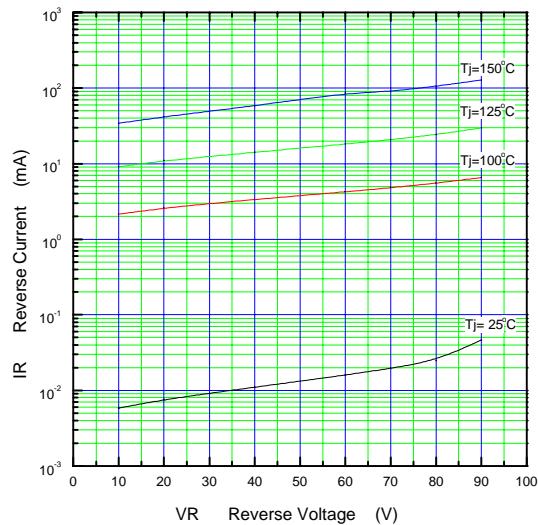


■ Characteristics

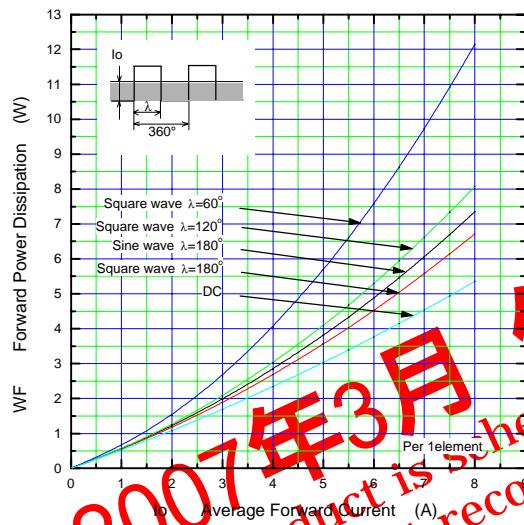
Forward Characteristic (typ.)



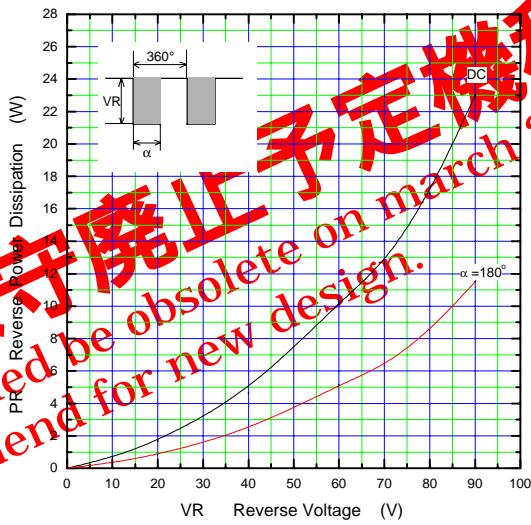
Reverse Characteristic (typ.)



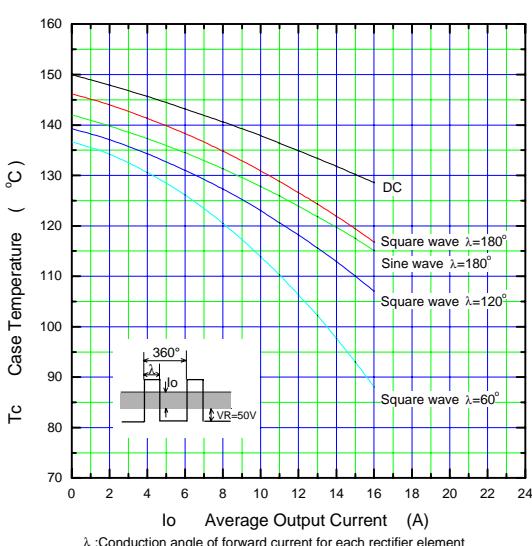
Forward Power Dissipation



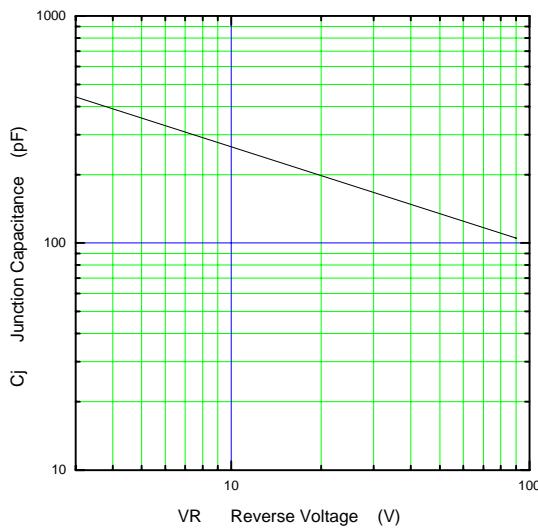
Reverse Power Dissipation

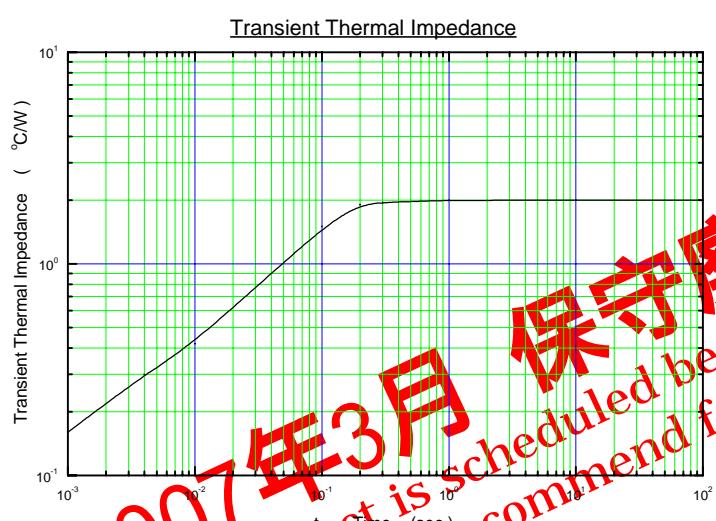
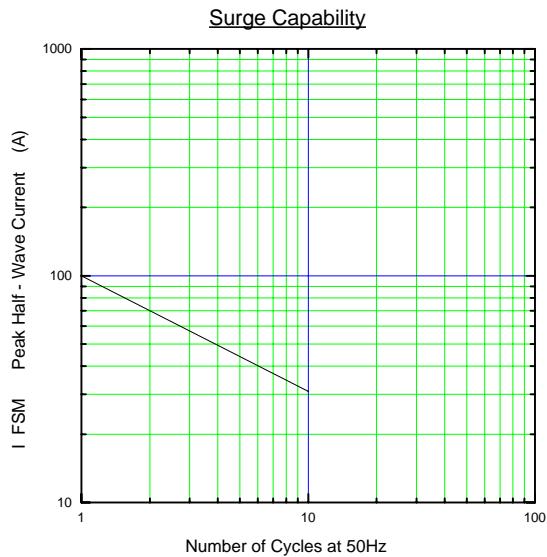


Current Derating (Io-Tc)



Junction Capacitance Characteristic (typ.)





2007年3月 保守停止予定機種
This product is scheduled be obsolete on march 2007.
Not recommend for new design.