

ESAC25(C,N,D) (10A)

(200V to 400V / 10A)

FAST RECOVERY DIODE

■ Features

- High voltage by mesa design
- High reliability

■ Applications

- High speed switching

■ Maximum ratings and characteristics

- Absolute maximum ratings

Item	Symbol	Conditions	Rating		Unit
			-02	-04	
Repetitive peak reverse voltage	V_{RRM}		200	400	V
Non-repetitive peak reverse voltage	V_{RSM}		250	450	V
Average output current	I_o	Square wave, duty=1/2, $T_c=106^\circ C$	10*		A
Surge current	I_{FSM}	Sine wave 10ms	70		A
Operating junction temperature	T_j		-40 to +150		°C
Storage temperature	T_{stg}		-40 to +150		°C

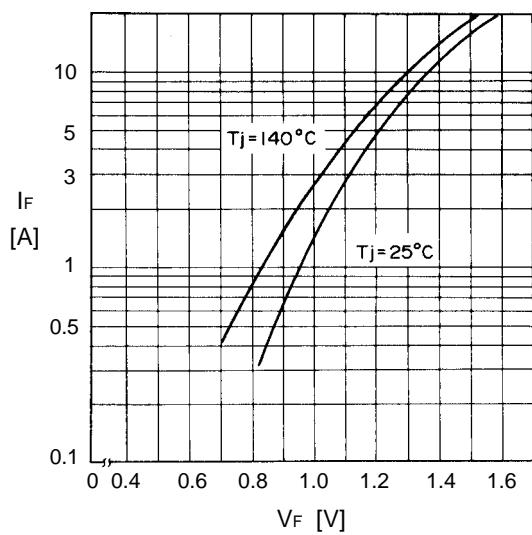
* Average forward current of centertap full wave connection

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

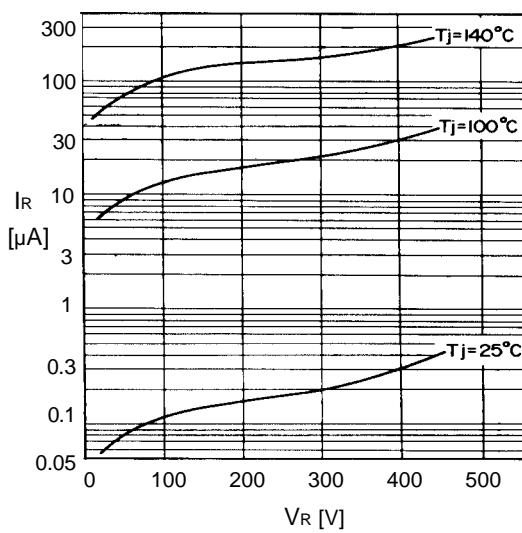
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=2.5A$	1.3	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	50	μA
Reverse recovery time	t_{rr}	$I_f=0.1A, I_r=0.1A$	0.4	μs
Thermal resistance	$R_{th(j-c)}$	Junction to case	3.0*	°C/W

■ Characteristics

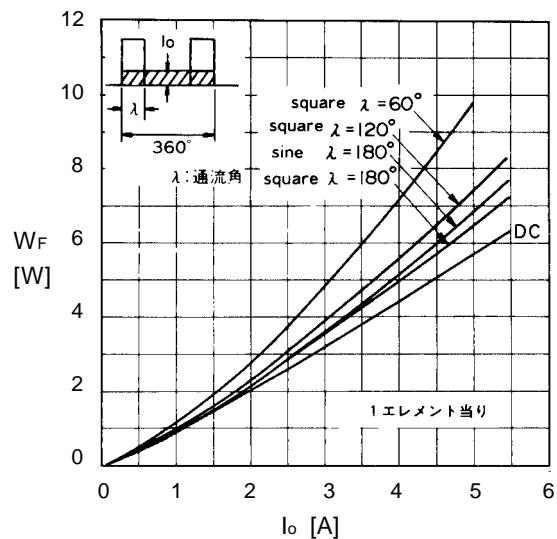
Forward characteristics



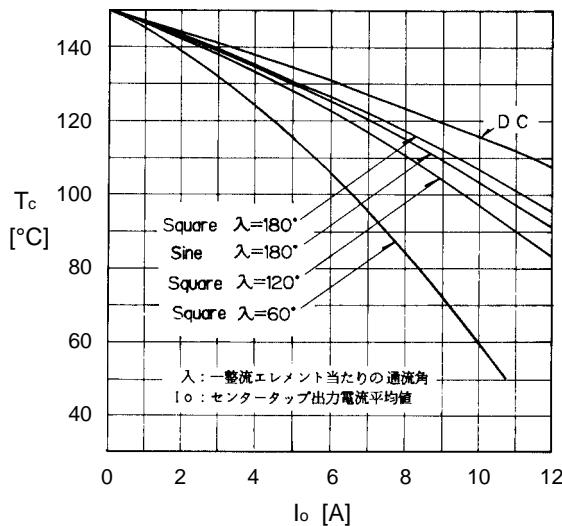
Reverse characteristics



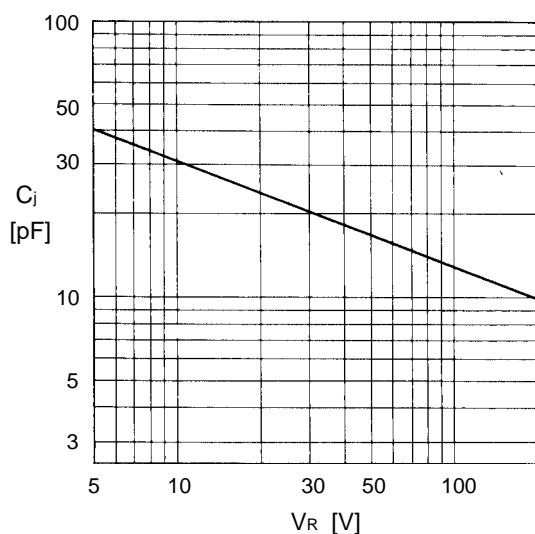
Forward power dissipation



Output current-case temperature



Junction capacitance characteristics



Surge capability

