

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

(200V to 400V / 10A)

FAST RECOVERY DIODE

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Features

- High voltage by mesa design
- High reliability

Applications

- High speed switching

Maximum ratings and characteristics

- Absolute maximum ratings

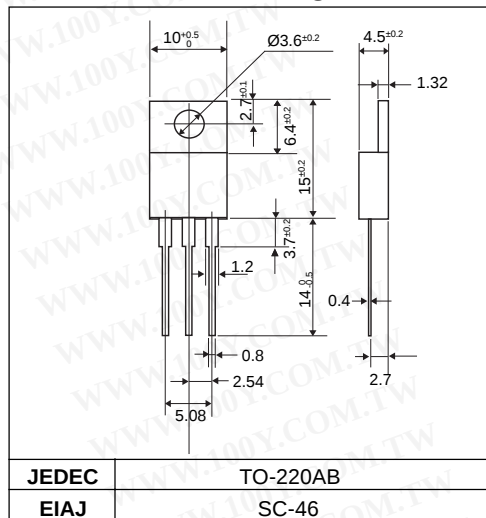
Item	Symbol	Conditions	Rating		Unit
			-02	-04	
Repetitive peak reverse voltage	V_{RRM}		200	400	V
Non-repetitive peak reverse voltage	V_{RSM}		250	450	V
Average output current	I_o	Square wave, duty=1/2, $T_c=106^{\circ}C$	10*		A
Surge current	I_{FSM}	Sine wave 10ms	70		A
Operating junction temperature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

*Average forward current of centertap full wave connection

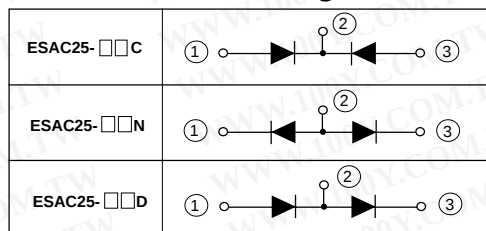
- Electrical characteristics ($T_a=25^{\circ}C$ Unless otherwise specified)

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*	$^{\circ}C/W$

Outline drawings, mm



Connection diagram



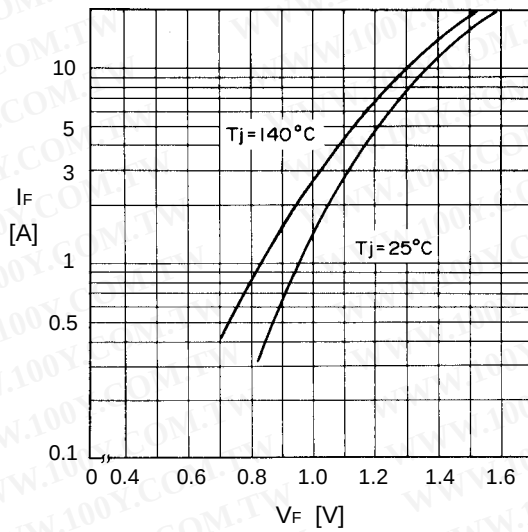
(200V to 400V / 10A)

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

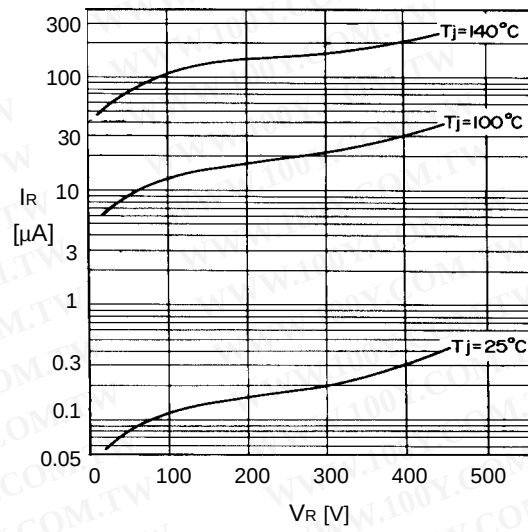
Characteristics

勝特力材料 886-3-5753170
勝特力電子(上海) 86-21-54151736
勝特力電子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

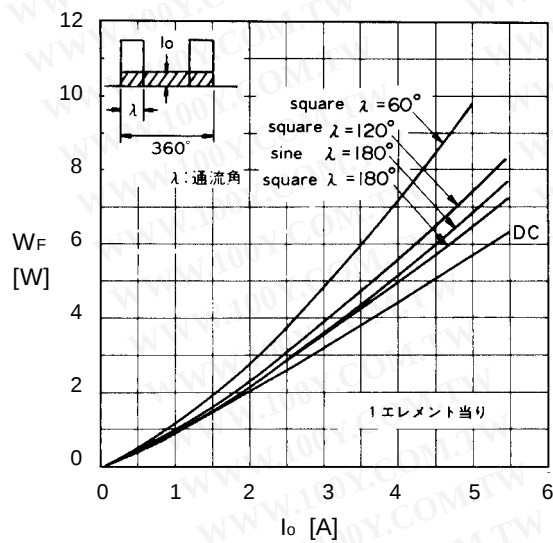
Forward characteristics



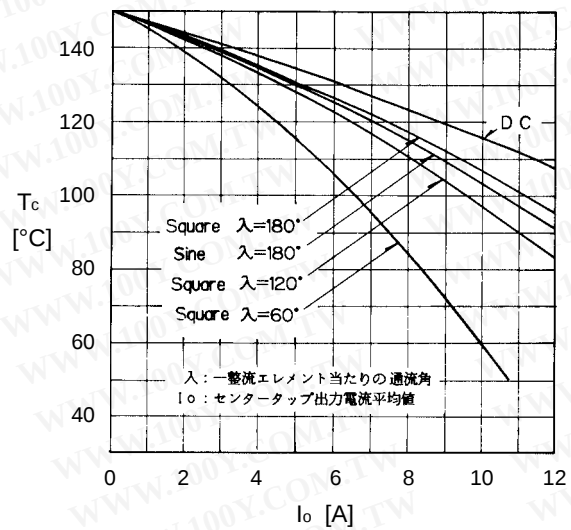
Reverse characteristics



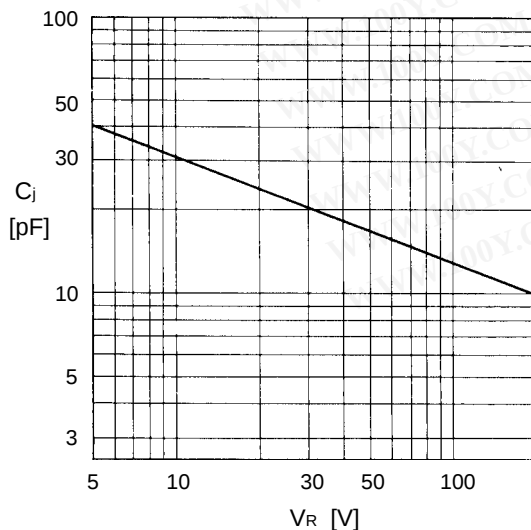
Forward power dissipation



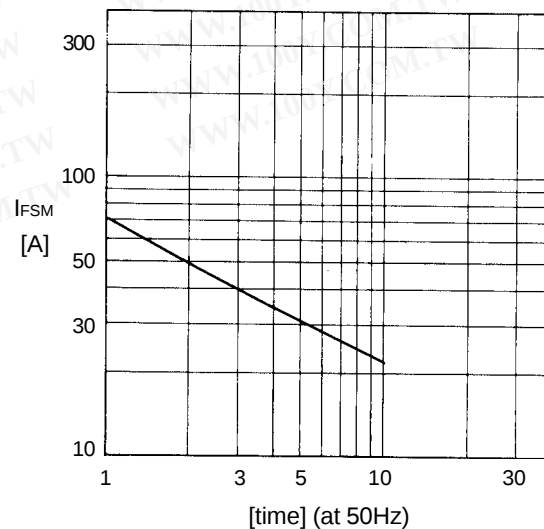
Output current-case temperature



Junction capacitance characteristics

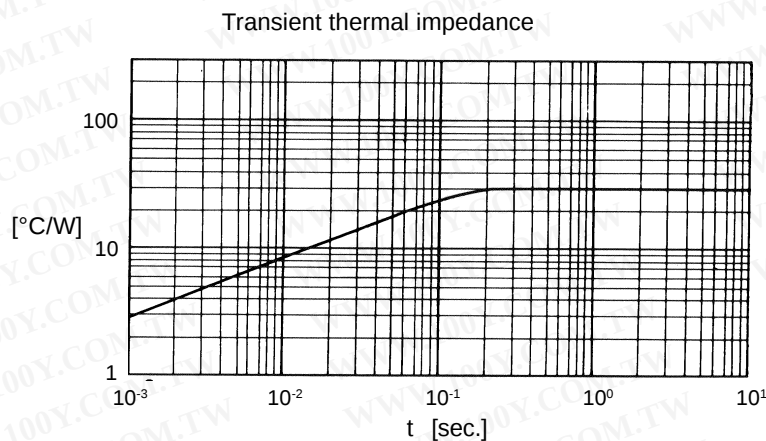


Surge capability



(200V to 400V / 10A)

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



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)