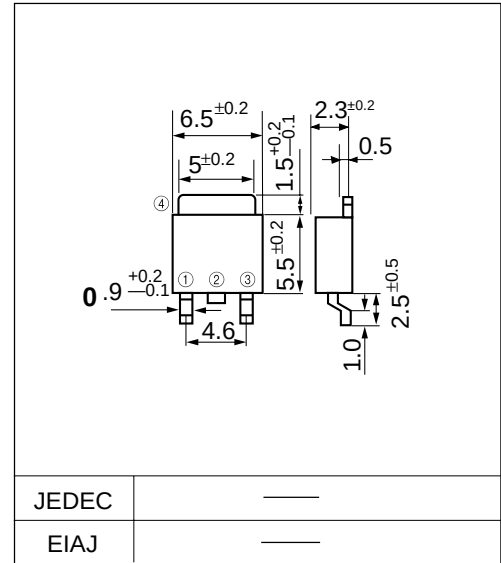


KS823C09 (5A)

(90V / 5A)

SCHOTTKY BARRIER DIODE

Outline drawings, mm



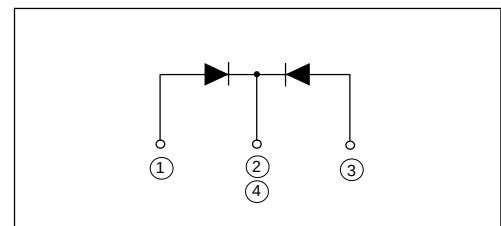
Features

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

Applications

- High speed power switching

Connection diagram



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}	$t_w=500ns$, duty=1/40	90	V
Average output current	I_o	Square wave, duty=1/2 $T_c=100^{\circ}C$	5.0*	A
Surge current	I_{FSM}	Sine wave 10ms	60	A
Operating junction temperature	T_j		-40 to +150	$^{\circ}C$
Storage temperature	T_{stg}		-40 to +150	$^{\circ}C$

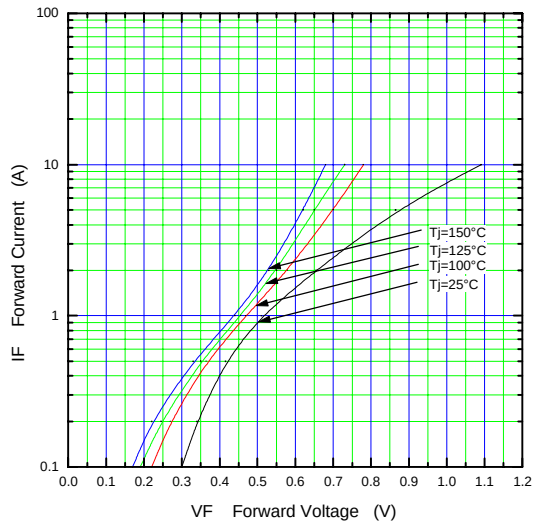
* Average forward current of centertap full wave connection

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

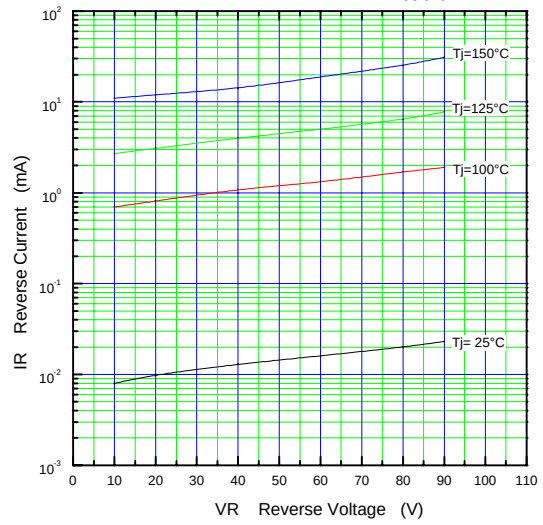
Item	Symbol	Conditions	Max.	Unit
Forward voltage drop	V_{FM}	$I_{FM}=2.5A$	0.9	V
Reverse current	I_{RRM}	$V_R=V_{RRM}$	5.0	mA
Thermal resistance	$R_{th(j-c)}$	Junction to case	10	$^{\circ}C/W$

■ Characteristics

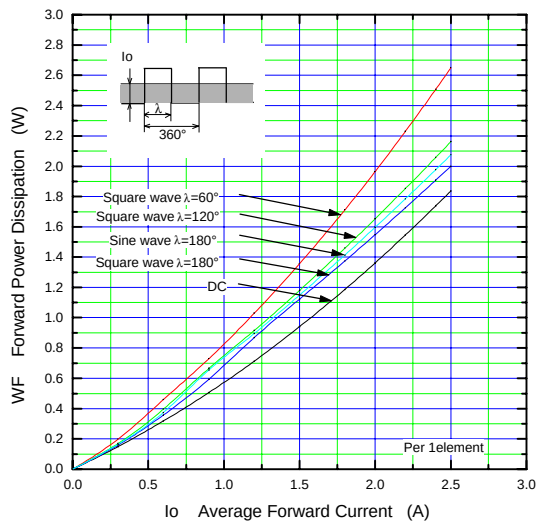
Forward Characteristic (typ.)



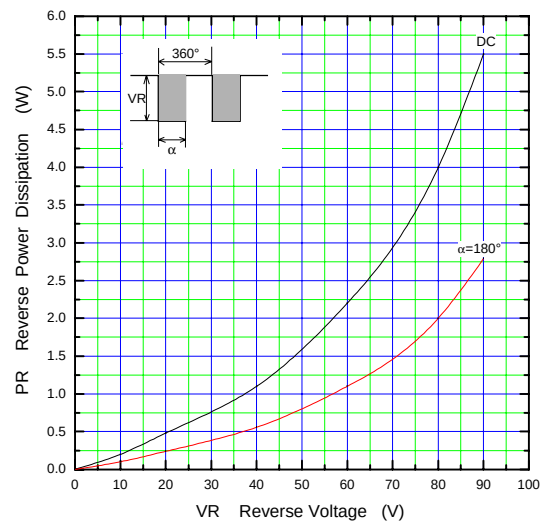
Reverse Characteristic (typ.)



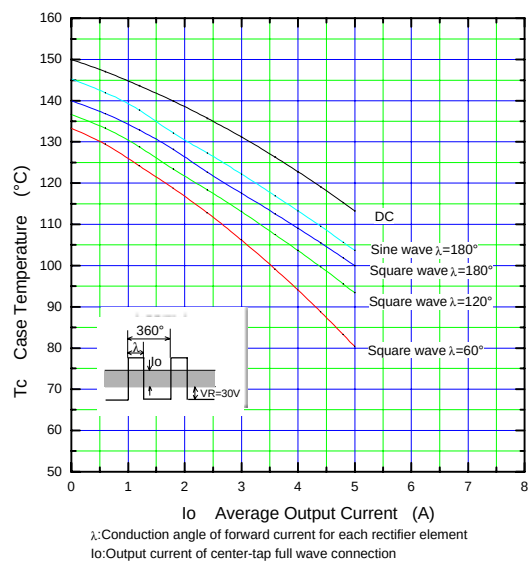
Forward Power Dissipation



Reverse Power Dissipation



Current Derating (I_o - T_c)



Junction Capacitance Characteristic (typ.)

