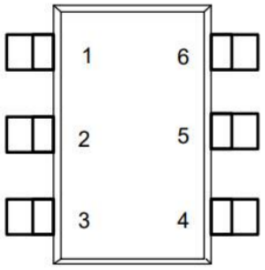
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HIGH-SPEED SWITCHING DIODE

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Features

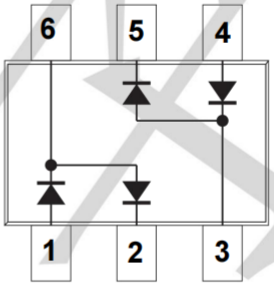
- Repetitive peak forward current
- High switching speed
- Continuous reverse voltage
- Repetitive peak reverse voltage



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Applications

- High-speed switching
- General-purpose switching
- Polarity protection application
- Freewheeling diodes



Absolute Maximum Ratings (TA=25°C unless otherwise specified)

Symbol	Parameter	Limits	Unit
V_{RRM}	Repetitive Peak Reverse Voltage	85	V
V_R	Reverse Voltage	75	V
I_F	Forward Current	150	mA
I_{FRM}	Repetitive Peak Forward Current	450	
I_{FSM}	Non-Repetitive Peak Forward Surge Current @ t=8.3ms	2.5	A
P_D	Power Dissipation	200	mW
$R_{\Theta JA}$	Thermal Resistance from Junction to Ambient	625	℃/W
T_j	Junction Temperature	150	℃
T_{stg}	Storage Temperature	-55~+150	

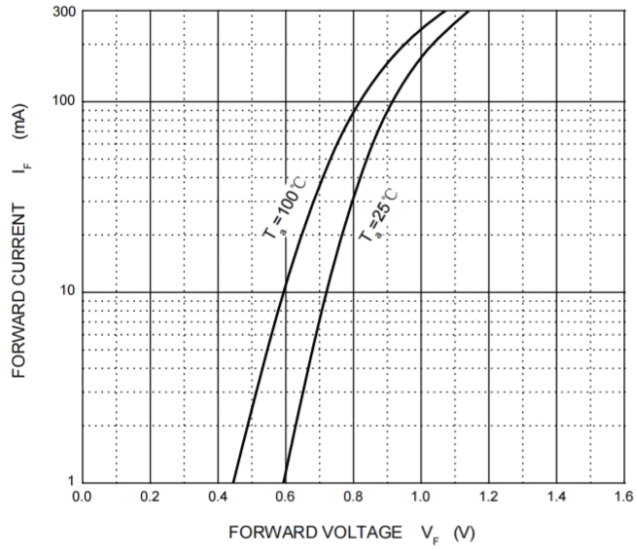
Electrical Characteristics (TA=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse voltage	$V_{(BR)}$	I_R=100μA	75	--	--	V
Reverse current	I_R	V_R=75V	--	--	1.0	μA
Forward voltage	V_F	I_F=1mA	--	--	0.715	V
		I_F=10mA	--	--	0.855	
		I_F=50mA	--	--	1.0	
		I_F=150mA	--	--	1.25	
Total capacitance	C_{tot}	V_R=0,f=1MHz	--	--	1.5	pF

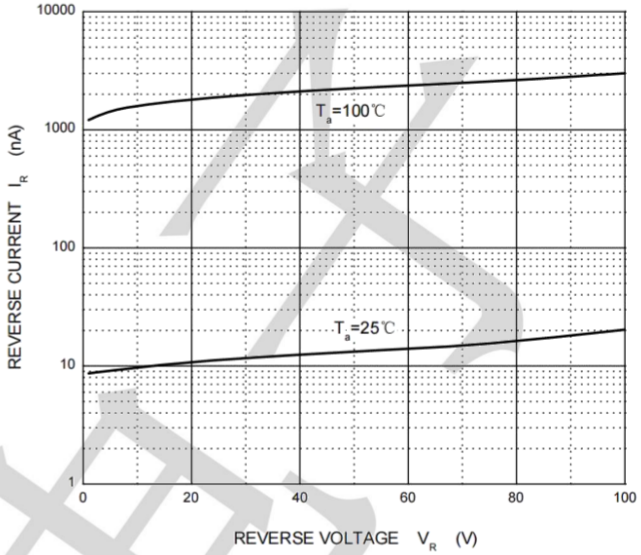
Note 1: The data tested by surface mounted on a 18mm * 15mm * 1mm FR4-epoxy P.C.B

Typical Electrical Characteristic Curves

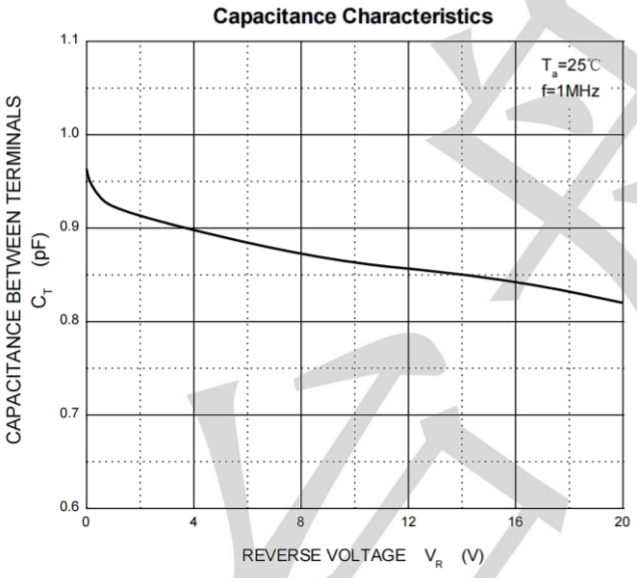
Forward Characteristics



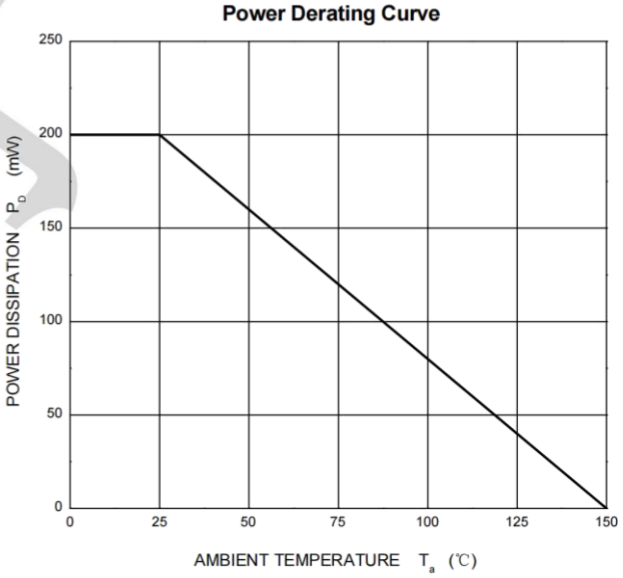
Reverse Characteristics



Capacitance Characteristics

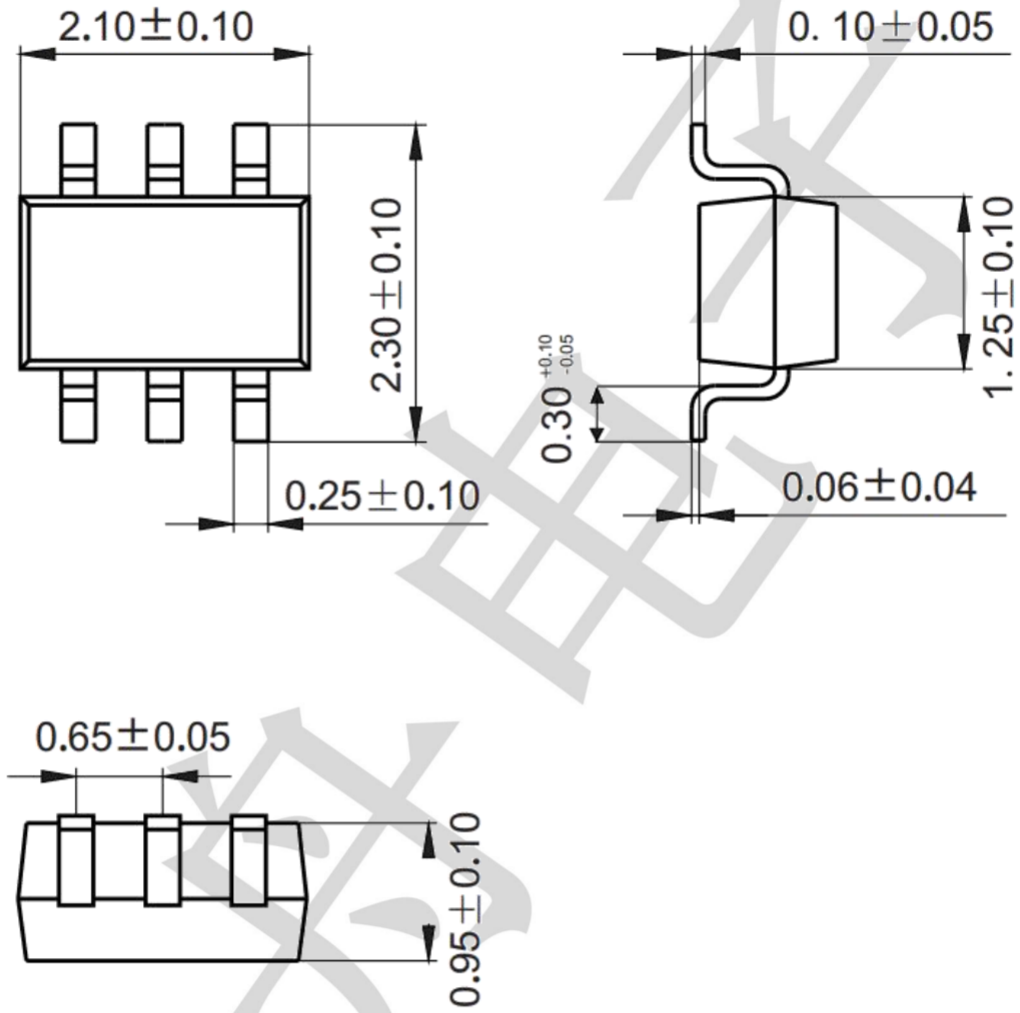


Power Derating Curve



Package informantion (unit: mm)

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Mounting Pad Layout (unit: mm)

