Micro Commercial Components
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MCCD2004S

350 mW High Voltage Switching Diode 240 Volts

Features

- Surface Mount SOT-23 Package
- Capable of 350mWatts of Power Dissipation
- Suited For Applications Requiring High Voltage Capability
- Marking Code: DB6

Maximum Ratings

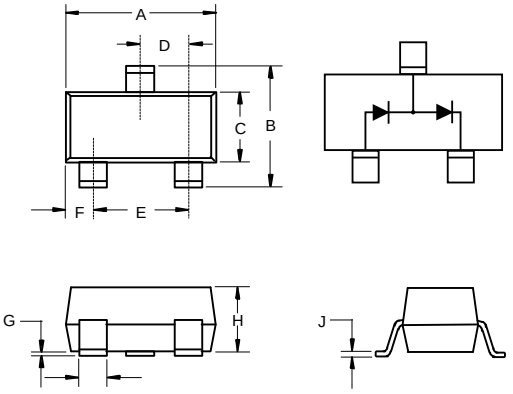
- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Typical Thermal Resistance: 357°C/W Junction to Ambient

Rating	Symbol	Value	Unit
Continuous Reverse Voltage	V_R	240	V
Peak Repetitive Reverse Voltage	V_{RRM}	300	V
Rectified Current	I_O	200	mA
Continuous Forward Current	I_F	225	mA
Repetitive Peak Forward Current	I_{FRM}	625	mA
Forward Surge Current t_P =1ms	I_{FSM}	4000	mA
Forward Surge Current t_P =1s	I_{FSM}	1000	mA
Total Power Dissipation @T_A=25°C	P_D	350	mW

Electrical Characteristics @ 25°C Unless Otherwise Specified

Ratings	Symbol	Value	Test Condition
Maximum Forward Voltage	V_F	1.0 V	I_F = 100mA
Maximum Reverse Current	I_R	100 nA 100 µA	V_R=240V V_R=240V,T_A=150°C
Minimum Reverse Breakdown Voltage	$V_{(BR)}$	300 V	I_R=100µA
Maximum Junction Capacitance	C_T	5.0 pF	V_R=0,f=1MHz
Maximum Reverse Recovery Time	t_{rr}	50 ns	I_F=I_R=30mA, Rec. to 3.0mA, R_L=100Ω

SOT-23



DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	.110	.120	2.80	3.04	
B	.083	.098	2.10	2.64	
C	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
H	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	

Suggested Solder Pad Layout