Plastic-Encapsulate Diodes

SWITCHING DIODE

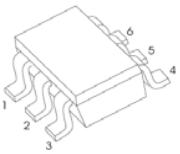
FEATURES

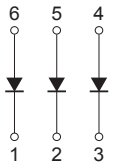
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance

MARKING:

Solid dot = Pin1 indicate.

SOT-363





MAXIMUM RATINGS (T_j = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak repetitive peak reverse voltage	V_{RRM}	250	V
Working peak reverse voltage	V_{RWM}	250	V
DC blocking voltage	V_R	250	V
Forward continuous current	I_{FM}	400	mA
Average rectified output current	I_O	200	mA
Non-repetitive peak forward surge current @ t = 8.3ms	I_{FSM}	2.5	A
Repetitive peak forward surge current	I_{FRM}	625	mA
Power dissipation	P_D	225	mW
Thermal resistance from junction to ambient	$R_{\theta JA}$	555	°C/W
Operating junction and storage temperature range	T_j, T_{stg}	-55 ~ 150	°C

ELECTRICAL CHARACTERISTICS (T_j = 25°C unless otherwise specified)

Parameter	Symbol	Test condition	Min	Typ	Max	Unit
Reverse breakdown voltage	V_{BR}	I_R = 100μA	250	-	-	V
Forward voltage	V_{F1}	I_F = 100mA	-	-	1	V
	V_{F2}	I_F = 200mA	-	-	1.25	
Reverse current	I_R	V_R = 200V	-	-	0.1	μA
Capacitance between terminals	C_T	V_R = 0V, f = 1MHz	-	-	5	pF
Reverse recovery time	t_{rr}	I_F = I_R = 30mA, I_{rr} = 3mA, R_L = 100Ω	-	-	50	ns

Typical Characteristics