

High-voltage switching diode

Features

1. Small surface mounting type
2. High reliability
3. $V_{RM}=250V$



Applications

High voltage switch and general purpose rectification

Construction

Silicon epitaxial planar

Absolute Maximum Ratings

$T_j=25^\circ$

Parameter	Test Conditions	Type	Symbol	Value	Unit
Peak reverse voltage			V_{RM}	250	V
DC reverse voltage			V_R	220	V
Surge current	$t_p=1s$		I_{Surge}	1	A
Mean rectifying current			I_O	200	mA
Peak forward current			I_{FM}	625	mA
Power dissipation			P	300	mW
Junction temperature			T_j	175	°C
Storage temperature range			T_{stg}	-65~+175	°C

Maximum Thermal Resistance

$T_j=25^\circ$

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient	on PC board 50mm* 50mm* 1.6mm	R_{thJA}	500	K/W

Electrical Characteristics

$T_j=25^\circ$

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage	$I_F=200\text{mA}$		V_F		1.13	1.5	V
Reverse current	$V_R=220\text{V}$		I_R		0.05	10	μA
Diode capacitance	$V_R=0, f=1\text{MHz}$		C_D			3	pF
Reverse recovery time	$I_F=I_R=20\text{mA}, R_L=50^\circ$		t_{rr}			75	ns

Dimensions in mm

