

SURFACE MOUNT FAST SWITCHING DIODE

REVERSE VOLTAGE - 100 V POWER DISSIPATION - 400 mW

FEATURES

- For surface mounted application
- Silicon epitaxial planar diode
- High speed switching
- Ultra small surface mount package
- Low leakage current

MECHANICAL DATA

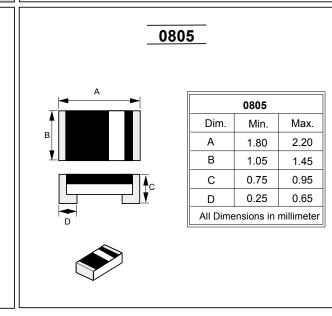
• Case : 0805

• Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl)

• Terminals: Lead Free Plating

• Polarity : Color band denotes cathode

• Weight : Approx.6mg



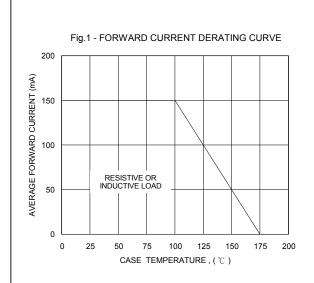
Maximum Ratings and Thermal Characteristics @ T_A = 25℃ unless otherwise specified

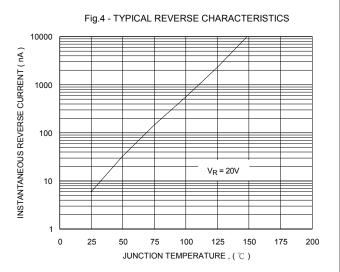
Characteristic		Symbol	Value	Units	
Reverse Voltage		V_{RRM}	75	V	
Non-Repetitive Peak Reverse Voltage		V _{RSM}	100	V	
Forward Continuous Current		I _{FM}	300	mA	
Average Rectified Output Currnet		I _{AV}	150	mA	
Forward Surge Current at	Гр = 1.0 s Гр = 1.0us	I _{FSM}	800 2.0	mA A	
Total Power Dissipation		P _d	400	mW	
Thermal Resistance Junction to Ambiant Air		$R_{ heta_{JA}}$	375	°C/W	
Operating and Storage Temperature Range		T_J , T_{STG}	-65 to +175	°C	

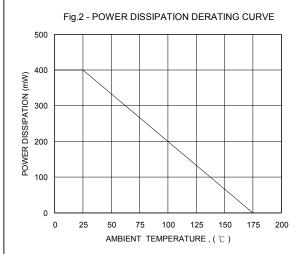
Electrical Characteristics @ T_A = 25°C unless otherwise specified

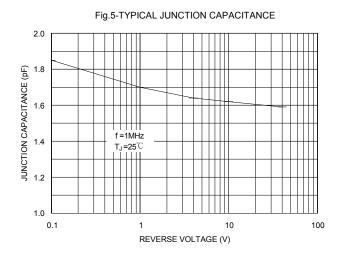
Parameters	Symbol	Test Condition	Min.	Max.	Unit
Reverse Breakdown Voltage	V _{BR}	IR = 1uA	100		V
Forward Voltage	V _F	IF = 10mA		1.0	V
Reverse Leakage Current	I _R	VR = 20V VR = 75V VR = 20V , T _J =150°C		25 5.0 50	nA uA uA
Junction Capacitance	CJ	VR = 0V ; F = 1MHz		4	pF
Reverse Recovery Time	T _{rr}	IF = IR=10mA ; RL = 100Ω measured at IR=1mA		4	ns
	REV. 4, Oct-2010	, KSYS01			

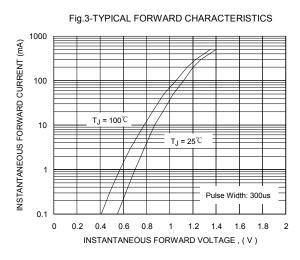


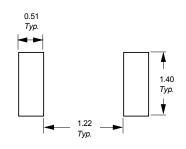












Recommended Mounting Pad Layout

All dimensions in millimeter



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