

SCHOTTKY BARRIER DIODE

VOLTAGE RANGE: 40V

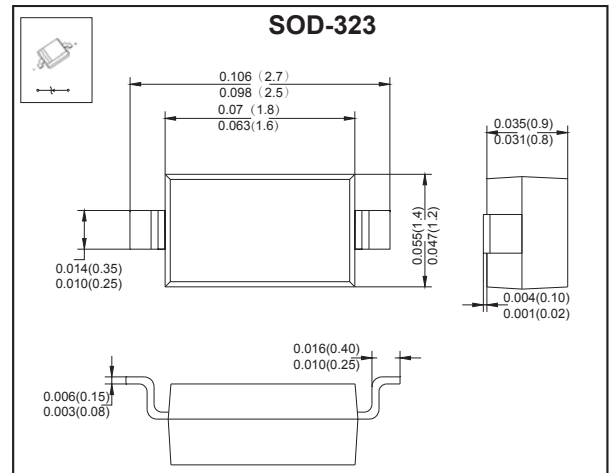
PEAK PULSE POWER:200mW

FEATURES

- Low Turn-on Voltage
- Designed for Surface Mount Application
- PN Junction Guard for Transient and ESD Protection
- Fast Switching
- Plastic Material –UL Recognition Flammability Classification 94V-O

MECHANICAL DATA

- Case: SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Parameter	Symbo	Limit	Unit
Peak Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking V oltage	V_R		
Forward Continuous Current	I_F	200	mA
Non-repetitive Peak Forward Surge Current @ $t=8.3ms$	I_{FSM}	600	mA
Power Dissipation	P_d	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	$^{\circ}C/W$
Junction temperature	T_J	125	$^{\circ}C$
Storage Temperature	T_{STG}	-55 ~ +150	$^{\circ}C$

Electrical Specification ($T_A=25@25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	40			V	$I_R=10\mu A$
Forward voltage	V_{F1}			0.38	V	$I_F=1mA$
	V_{F2}			0.5	V	$I_F=10mA$
	V_{F3}			1	V	$I_F=40mA$
Reverse current	I_R		20	200	nA	$V_R=30V$
Capacitance between terminals	C_T		4	5	pF	$V_R=0V, f=1MHz$
Reverse recovery time	t_{rr}			5	ns	$I_F=I_R=10mA$ $I_{rr}=0.1I_R, R_L=100\Omega$

MARKING: 43

RATINGS AND CHARACTERISTIC CURVES

Typical Characteristics

