

SOT-23 SCHOTTKY BARRIER DIODE

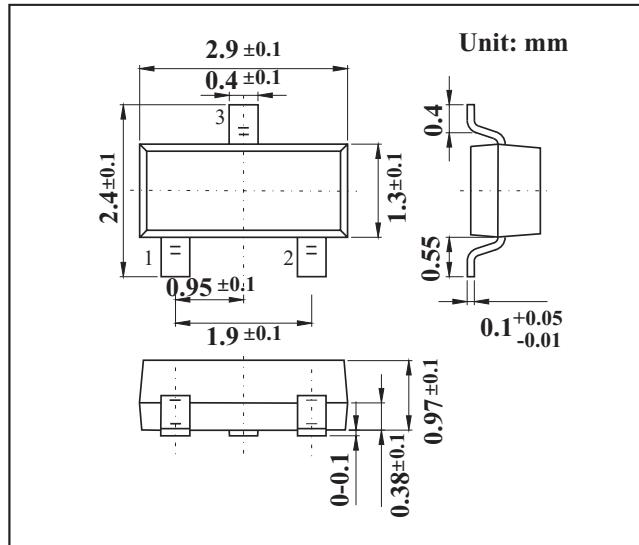
VOLTAGE RANGE: 40V PEAK PULSE POWER:250mW

FEATURES

- Extremely Fast Switching Speed
- Small surface mounting type
- Low reverse current and low forward voltage
- High reliability

MECHANICAL DATA

- Case: SOT-23 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Limit		Unit
Peak reverse voltage	V_{RM}	40		V
DC reverse	V_R	40		V
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	3		A
Mean rectifying current	I_o	0.5		A
Power dissipation	P_D	250		mW
Thermal resistance from junction to ambient	$R_{\theta JA}$	400		°C/W
Junction temperature	T_j	125		°C
Storage temperature	T_{stg}	-55~+150		°C

Electrical Specification (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V_R	40			V	$I_R=100\mu A$
Forward voltage	V_F			0.55	V	$I_F=0.5A$
Reverse current	I_{R1}			50	μA	$V_R=30V$
	I_{R2}			30	μA	$V_R=10V$
Capacitance between terminals	C_{T1}		125		pF	$V_R=0V, f=1MHz$
	C_{T2}		20		pF	$V_R=10V, f=1MHz$

MARKING: D3A

RATINGS AND CHARACTERISTIC CURVES

