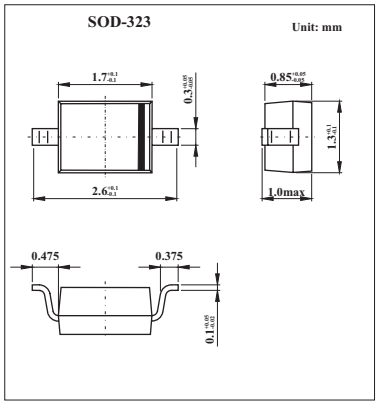
SURFACE MOUNT SCHOTTKY BARRIER DIODE

BAT42WS / BAT43WS



■ Features

- Low Switching
- Fast Switching
- PN Junction Gurad Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material - UL Recognition Flammability Clsaaification 94V-O

■ Absolute Maximum Ratings Ta = 25℃

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Volatge	V_{RRM} V_{RWM} V_R	30	V
Forward Continuous Current (Note 1)	I_F	200	mA
Rectified Peak Forward Current (Note 1) @ T < 1.0s	I_{FSM}	500	mA
Non-Repetitive Peak Forward Current @ t < 10ms	I_{FSM}	4.0	A
Power Dissipation	P_d	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	625	K/W
Operating and Storage Temperature Range	T_j ,T_{STG}	-55 to+125	℃

Note:

1. Valid provided that terminals are kept at ambient temperature.

■ Electrical Characteristics Ta = 25℃

Characteristic		Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Breakdown Voltage		$V_{(BR)R}$	@ I_{RS} = 100 μA	30			V
Forward Voltage	BAT42WS	V_F	@ I_F = 1.0 mA			0.4	V
	BAT42WS		@ I_F = 200 mA			1.0	
	BAT43WS		@ I_F = 2.0 mA			0.33	
	BAT43WS		@ I_F = 200 mA			1.0	
Reverse Leakage Current		I_R	@ V_R =25 V			0.5	μA
Junction Capacitance		C_j	V_R = 1.0 V, f = 1.0 MHz			10	pF
Reverse Recovery Time		t_{rr}	I_F = I_R = 10 mA I_{RR} = 0.1 x I_R, R_L = 100 Ω			5.0	nS

■ Marking

Type	BAT42WS	BAT43WS
Marking	L2	L3