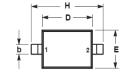
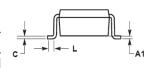


SURFACE MOUNT SCHOTTKY BARRIER DIODE

Features

- Low Turn-on Voltage.
- Fast Switching.
- PN Juncting Guard Ring for Transient and ESD Protection.
- Marking Code: 43







SOD-323					
Dim.	Min.	Max.			
Α	0.80	1.10			
A1	0.00	0.10			
A3	0.15 REF				
В	0.25	0.40			
С	0.10	0.15			
D	1.60	1.80			
Е	1.15	1.35			
L	0.20	0.50			
Н	2.30	2.80			
Dimensions in millimeter					

Maximum Ratings @ T_A = 25°C unless otherwise specified

Parameter	Symbol	Value	Unit	
Peak Repetive Reverse Voltage	V_{RM}			
Working Peak Reverse Voltage	V_{RWM}	40	V	
DC Blocking Voltage	V _R			
Forward Continuous Current	I _{FM}	200	mA	
Forward Surge Current @ t <1.0 s	I _{FSM}	600	mA	
Power Dissipation	P _D	350	mW	
Thermal Resistance from Junction to Ambient Air	$R_{\theta JA}$	357	°C/W	
Junction Temperature	Tj	- 55 to +125	°C	
Storage Temperature Range	T _{stg}	- 65 to +150	°C	

Electrical Characteristics @ T_A = 25°C unless otherwise specified

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Breakdown Voltage	V _{(BR)R}	40	_	_	V	I _R = 10μA
Forward Voltage	V _F	_	_	380 1000	mV	$t_p < 300 \mu s$, $I_F = 1.0 mA$ $t_p < 300 \mu s$, $I_F = 40 mA$
Reverse Leakage Current	I _R	_	20	200	nA	$t_p < 300 \mu s$, $V_R = 30 V$
Junction Capacitance	Cj	_	4.0	5.0	pF	V _R = 0V, f =1.0MHz
Reverse Recovery Time	t _{rr}	_	_	5.0	ns	$I_F = I_R = 10$ mA to $I_R = 1.0$ mA, $R_L = 100\Omega$

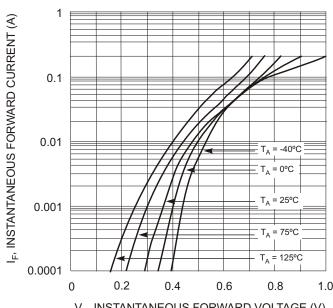
Notes: 1. Valid Provided that terminals are kept at ambient temperature.



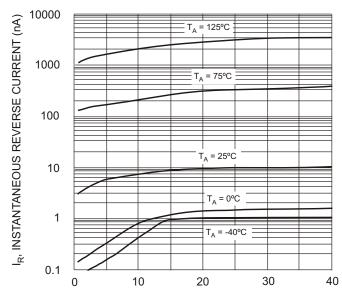


SURFACE MOUNT SCHOTTKY BARRIER DIODE

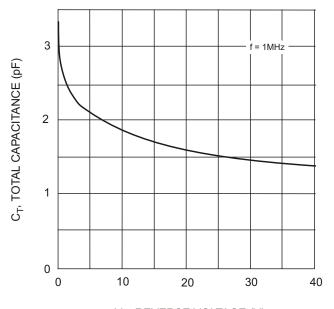
TYPICAL TRANSIENT CHARACTERISTICS



 V_{F} , INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 1 Typical Forward Voltage



 V_R , INSTANTANEOUS REVERSE VOLTAGE (V) Fig. 2 Typical Reverse Characteristics



V_R, REVERSE VOLTAGE (V) Fig. 3 Typical Capacitance





SURFACE MOUNT SCHOTTKY BARRIER DIODE

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