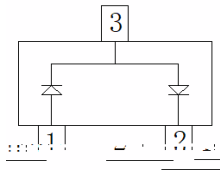


High Speed Switching Diode



SOT-23



Features

- Epoxy meets UL-94 V-0 flammability rating and halogen free
- Moisture Sensitivity Level 1
- V_{BR} 85V
- I_{FAV} 215mA@ Single diode loaded
- Part no. with suffix "Q" means AEC-Q101 qualified

Applications

- Low-Leakage
- Automotive

Mechanical Data

- Case: SOT-23
- Terminals: Tin plated leads, solderable per J-STD-002 and JESD22-B102

■ Maximum Ratings ($T_a=25$ Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Reverse Breakdown Voltage	V_{BR}	V		85

Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	$t_p=1 \mu s$	4
Power Dissipation	P_D	mW		350
Thermal Resistance Junction to Ambient	R_{thJA}	- /W		357
Maximum Junction Temperature	T_J	-		150
Storage Temperature Range	T_{stg}	-		-55 to +150

[1] Single diode loaded

■ Electrical Characteristics $T_a=25$ Unless otherwise specified

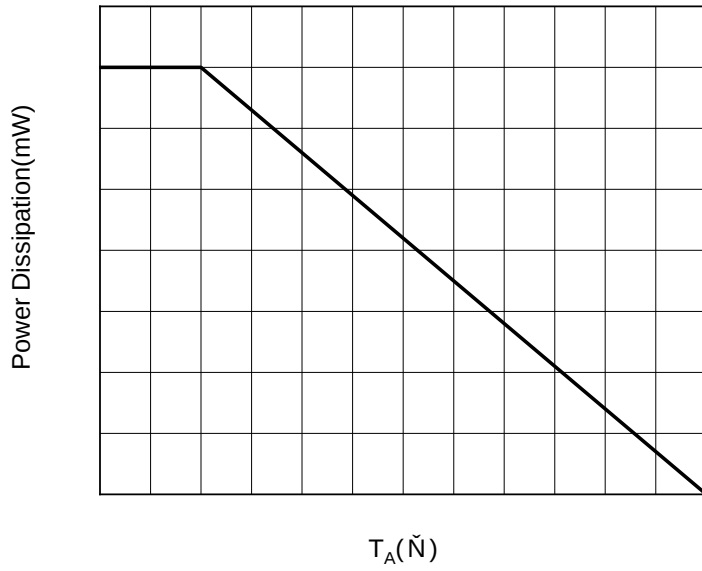
PARAMETER	SYMBOL	UNIT	CONDITIONS
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11 0 0

			$I_F = 150 \text{ mA}$			1250
Reverse Current	I_R	nA	$V_R = 75 \text{ V}$			5
Reverse Breakdown Voltage	V_{BR}	V	$I_R = 10 \mu A$	85		
Junction Capacitance	C_j	pF	$V_R = 0 \text{ V}, f = 1 \text{ MHz}$			4
Reverse Recovery Time	t_{rr}	ns	$I_F = 10 \text{ mA}, I_R = 10 \mu A, R = 100 \Omega$			3

■

Fig.1: P_D-T_A





■ Outline Dimensions

■ Marking Information

Note:
1. All marking is at middle of the product body

