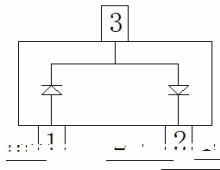


High Speed Switching Diode



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 ($T_a=25^\circ\text{C}$ Unless otherwise specified)

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

Non-Repetitive Peak Forward Surge Current	I_{FSM}	A	$t_p=1\text{ }\mu\text{s}$	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 $T_a=25^\circ\text{C}$ Unless otherwise specified

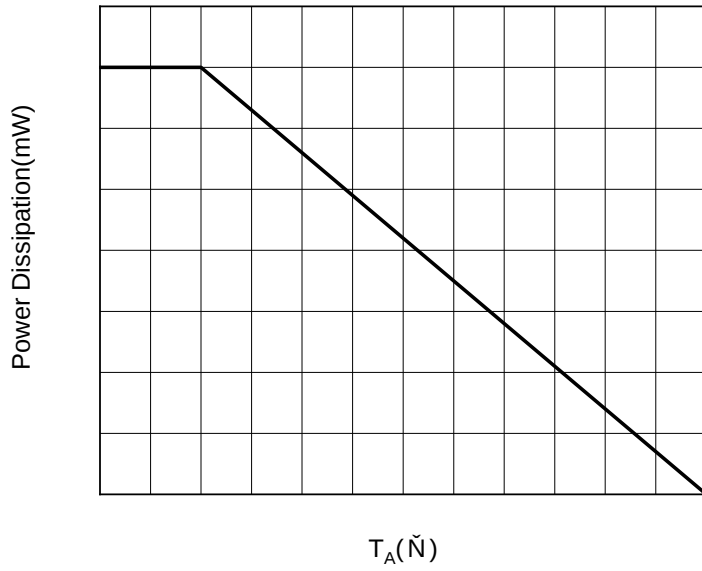
PARAMETER	SYMBOL	UNIT	CONDITIONS	
-----------	--------	------	------------	--

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	$I_R = 10\text{ }\mu\text{A}$	85		
Junction Capacitance	C_j	pF	$V_R = 0\text{ V}, f = 1\text{ MHz}$			4
Reverse Recovery Time	t_{rr}	ns	$I_F = 10\text{ mA}, I_R = 10\text{ }\mu\text{A}, R = 100\text{ }\Omega$			3

■

Fig.1: P_D-T_A





■ Outline Dimensions

■ Marking Information

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

