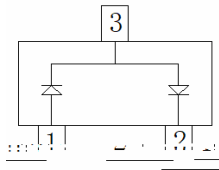


## High Speed Switching Diode



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)

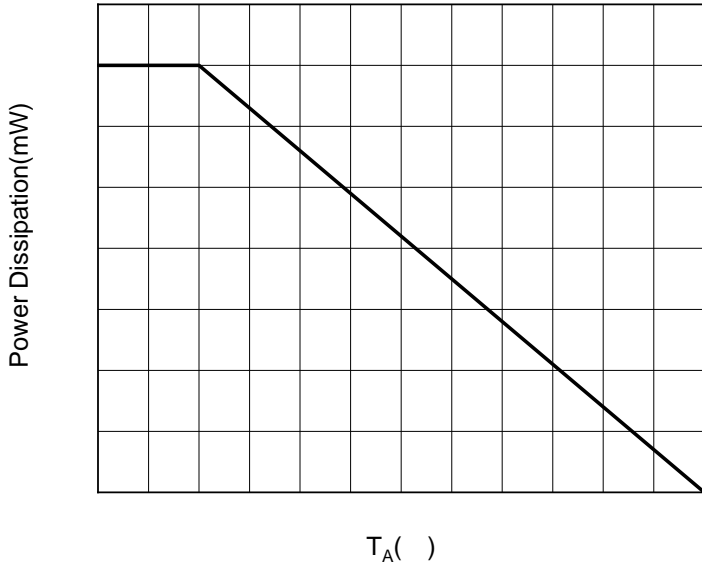
PARAMETER	SYMBOL	UNIT	CONDITIONS	VALUE
Reverse Breakdown Voltage	$V_{BRK}$	V		85
Non-Repetitive Peak Forward Surge Current	$I_{FSM}$	A	$t_p=1 \mu s$	4
Power Dissipation	$P_D$	mW		350
Thermal Resistance Junction to Ambient	$R_{thJA}$	- /W		357
Maximum Junction Temperature	$T_j$	-		150
Storage Temperature Range	$T_{stg}$	-		-55 to +150

[1] Single diode loaded

### Electrical Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	CONDITIONS	UNIT
Reverse Current	$I_R$	nA	$V_R = 10V$	nA
Reverse Breakdown Voltage	$V_{BR}$	V	$I_R = 1 \mu A$	V
Junction Capacitance	$C_j$	pF	$V_R = 0V, f = 1MHz$	pF
Reverse Recovery Time	$t_{rr}$	s	$I_F = 10mA, I_R = 1mA$	s

Fig.1:  $P_D-T_A$





**Outline Dimensions**

**Marking Information**

Note:

1. All marking is at middle of the product body

