

**SOT-323 SWITCHING DIODE**

**FEATURES**

- \* Power dissipation  
P<sub>D</sub>: 200 mW (T<sub>amb</sub>=25°C)
- \* Forward current  
I<sub>F</sub>: 100 mA
- \* Reverse voltage  
V<sub>R</sub>: 80 V
- \* Operating and storage junction temperature range  
T<sub>J</sub>, T<sub>stg</sub>: -65°C to +150°C

**MECHANICAL DATA**

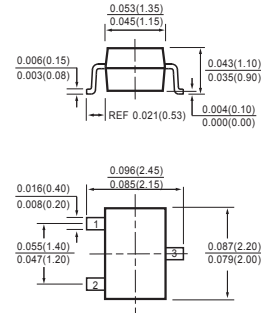
- \* Case: Molded plastic
- \* Epoxy: UL 94V-O rate flame retardant
- \* Lead: MIL-STD-202E method 208C guaranteed
- \* Mounting position: Any
- \* Weight: 0.006 gram
- \* Marking: A7

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25 °C ambient temperature unless otherwise specified.



**SOT-323**



Dimensions in inches and (millimeters)

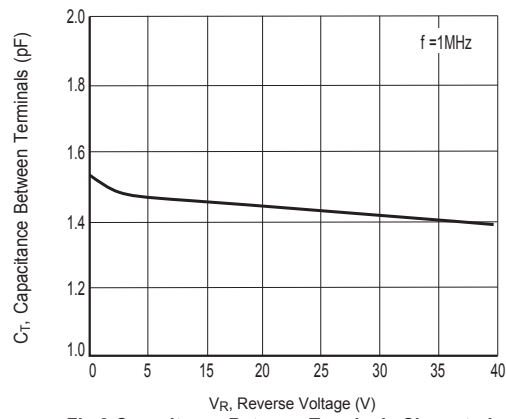
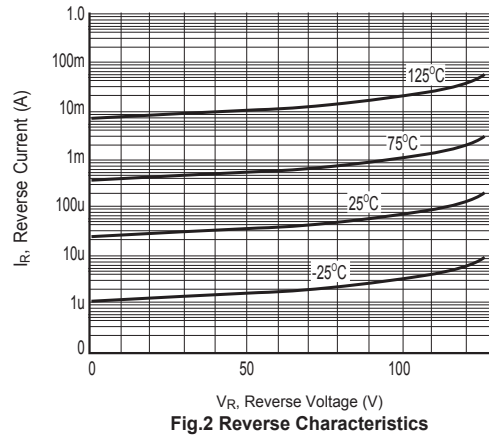
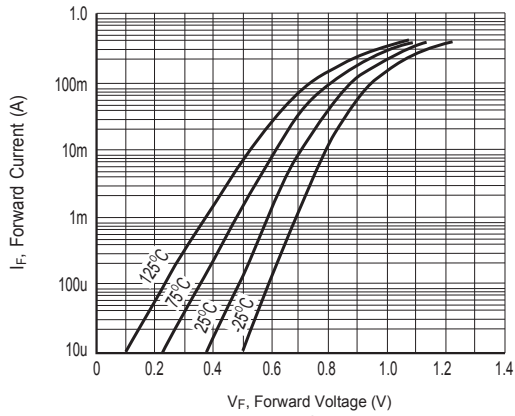
**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS, SINGLE DIODE ( @ T<sub>A</sub> = 25°C unless otherwise noted )**

PARAMETER	SYMBOL	LIMITS	UNITS
Peak Reverse Voltage	V <sub>RM</sub>	80	V
DC Reverse Voltage	V <sub>R</sub>	80	V
Maximum (Peak) Forward Current	I <sub>FM</sub>	300	mA
Average Forward Current	I <sub>O</sub>	100	mA
Surge Current (1uS) (10mS)	I <sub>FSM</sub>	400 1000	mA
Power dissipation	P <sub>D</sub>	200	mW
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature	T <sub>STG</sub>	-55 to +150	°C
Operating Temperature Range	T <sub>OPR</sub>	-40 to +100	°C

**ELECTRICAL CHARACTERISTICS ( @ T<sub>A</sub> = 25°C unless otherwise noted )**

CHARACTERISTICS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage (I <sub>R</sub> =100uA)	V <sub>(BR)</sub>	80	-	-	V
Reverse voltage leakage current (V <sub>R</sub> =70V)	I <sub>R</sub>	-	-	0.2	uA
Forward voltage (I <sub>F</sub> =100mA)	V <sub>F</sub>	-	-	1200	mV

## RATING AND CHARACTERISTICS CURVES ( DAN217U )



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