

SMALL SIGNAL DIODE

FEATURES

- * Silicon epitaxial planar diode
- * Fast switching
- * Surface mounting device
- * "A7" Device marking

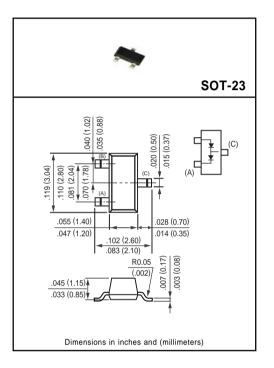
MECHANICAL DATA

* Epoxy: Device has UL flammability classification 94V-0

* Weight: apporx. 0.008g

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	BAV99	UNITS
Repetitive Peak Reverse Voltage	VRRM	70	Volts
Forward Continuous Current at T _A =25 °C	I _F	215	m A
Repetitive Peak Forward Current at T _A =25 °C	I _{FRM}	450	m A
Surge Forward Current at tp < 1 ms, at T = 25 °C	I _{FSM}	1000	mA
Total Power Dissipation	P _D	250	m W
Junction Temperature	T	150	°C
Storage Temperature Range	Тѕтс	-65 to + 150	٥C

ELECTRICAL CHARACTERISTICS (At TA = 25°C unless otherwise noted)

CHARACTERISTICS	SYMBOL	Value	Unit	Testing Condition
Reverse Breakdown Voltage	V(BR)R	70	V	Ir=100uA
Forward Voltage	VF(1)	715	mV	If=1mA
	VF(2)	855	m V	If=10mA
	VF(3)	1000	m V	IF=50mA
	VF(4)	1250	m V	If=150mA
Reverse Current	I _R	2.5	uA	Vr=70V
Total Capacitance	C _T	1.5	pF	Vr=0V,F=1MHZ
Reverse Recovery Time	Trr	6	nS	If=Ir=10mA,RL=100 ohm, measured at ir=1mA

CHARACTERISTIC CURVES

FIG. 1 - FORWARD CURRENT & FORWARD VOLTAGE

500

(YE)
400

0

0

400

800

1200

1600

2000

FORWARD VOLTAGE,VF (mV)

