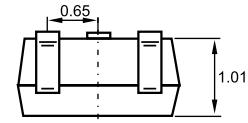
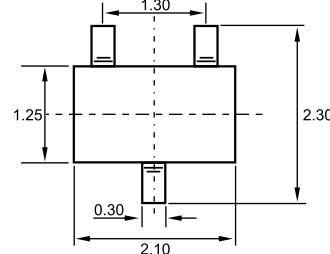

SOT-323


Features

- ✧ High switching speed.
- ✧ For general purpose switching application.
- ✧ Small plastic SMD size.
- ✧ Low capacitance.
- ✧ Two electrically isolated series configuration arrays.

Applications

- ✧ For general purpose switching application.

Ordering Information

Type No.	Marking	Package Code
BAV99S	K1	SOT-363

MAXIMUM RATING @ Ta=25°C unless otherwise specified

Symbol	Characteristic	Value	Unit
V _{RRM}	Repetitive peak reverse voltage	85	V
V _R	Continuous Reverse voltage	75	V
I _{FRM}	Repetitive peak forward current	450	mA
I _F	Forward continuous current	200	mA
I _{FSM}	Non-repetitive peak forward surge current @t=1.0μs @t=1.0ms @t=1.0s	4.5 1.0 0.5	A
P _D	Power Dissipation	250	mW
T _j , T _{stg}	Junction and Storage Temperature	-65 to +150	°C

ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Reverse breakdown voltage	$V_{(BR)R}$	$I_R=2.5\mu A$	75	-	V
Forward voltage	V_F	$I_F=1.0mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$	-	0.715 0.855 1.0 1.25	V
Reverse current	I_R	$V_R=75V$	-	1	μA
Diode Capacitance	C_D	$V_R=0V, f=1.0MHz$	-	1.5	pF
Reverse Recovery time	t_{rr}	$I_F=I_R=10mA R_L=100\Omega$	-	4	ns

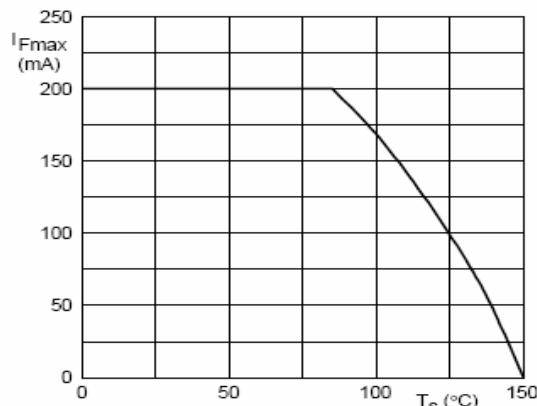
TYPICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified


Fig. 1 Maximum permissible continuous forward current as a function of soldering point temperature.

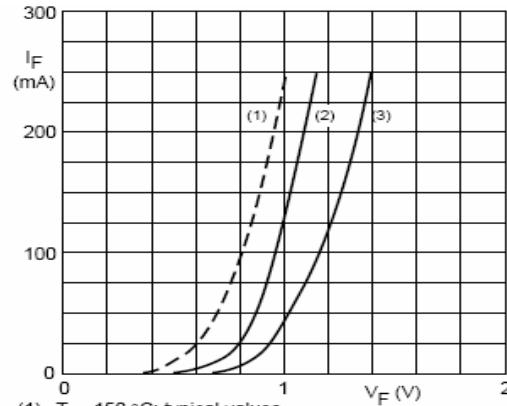


Fig. 2 Forward current as a function of forward voltage.

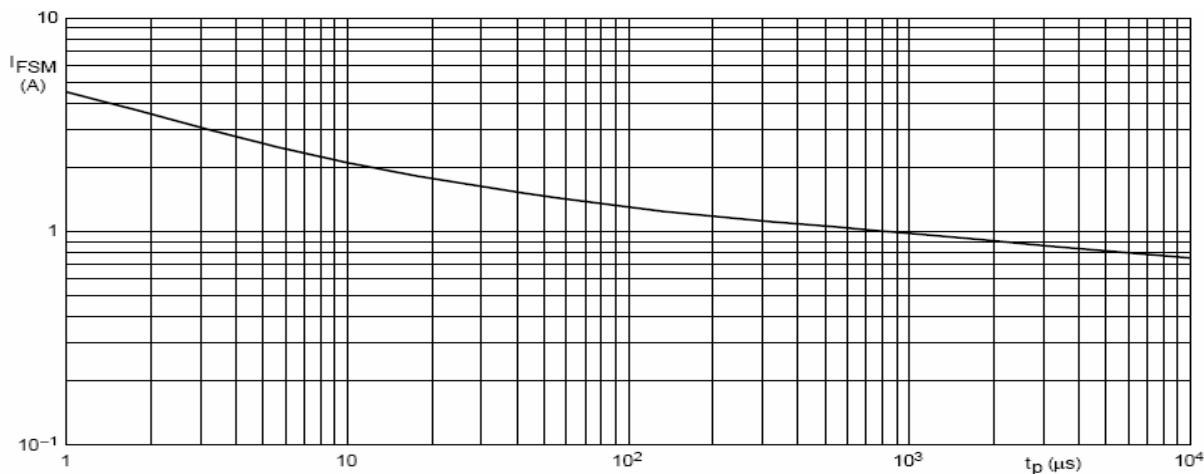


Fig. 3 Maximum permissible non-repetitive peak forward current as a function of pulse duration.