



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Small Signal Product

250mW High Speed Switching Array

FEATURES

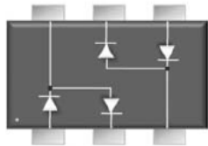
- Fast switching speed
- High reverse breakdown voltage rating
- Moisture sensitivity level 1
- Matte Tin (Sn) lead finish with Nickel (Ni) underplate
- Pb free version and RoHS compliant
- Packing code with suffix "G" means green compound (halogen-free)

MECHANICAL DATA

- Case: SOT-363 small outline plastic package
- Terminal: Matte tin plated, lead free., solderable per MIL-STD-202, Method 208 guaranteed
- High temperature soldering guaranteed : 260°C/10s
- Case material UL flammability rating 94V-0
- Weight: 8 ± 0.5 mg
- Marking Code: K1



SOT-363



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation	P _D	200	mW
Repetitive Peak Reverse Voltage	V _{RRM}	85	V
Repetitive Peak Forward Current	I _{FRM}	450	mA
Mean Forward Current	I _O	150	mA
Non-Repetitive Peak Forward Surge Current	I _{FSM}	4.5 0.5	A
Pulse width = 1 μs Pulse width = 1 s			
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to 150	°C

PARAMETER	SYMBOL	MIN	MAX	UNIT
Reverse Breakdown Voltage	V _(BR)	75	-	V
Forward Voltage	V _F	-	0.715	V
		-	0.855	
		-	1.000	
		-	1.200	
		-	1.250	
Reverse Leakage Current	I _R	-	1.000	μA
Junction Capacitance	C _J	-	1.500	pF
Reverse Recovery Time	t _{rr}	-	6.000	ns

Note 1 : Reverse recovery test conditions : I_F=I_R=10mA, R_L=100Ω

Small Signal Product

RATINGS AND CHARACTERISTICS CURVES

($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Fig. 1 Maximum Permissible Continuous Forward Current As A Function of Soldering Point Temperature

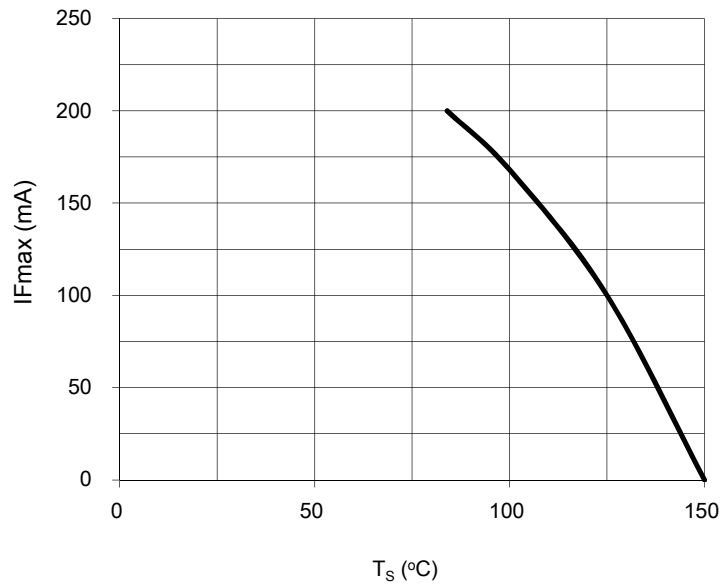


Fig. 2 Forward Current As A Function of Forward Voltage

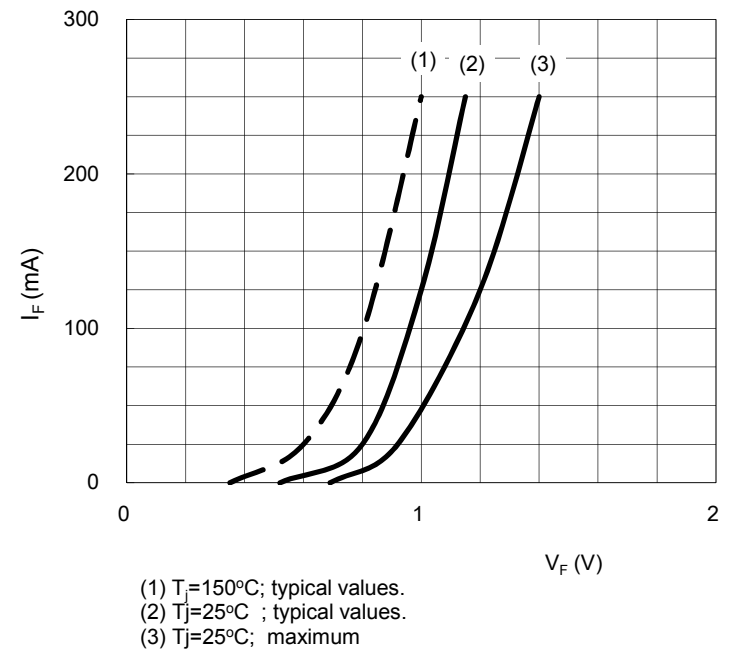
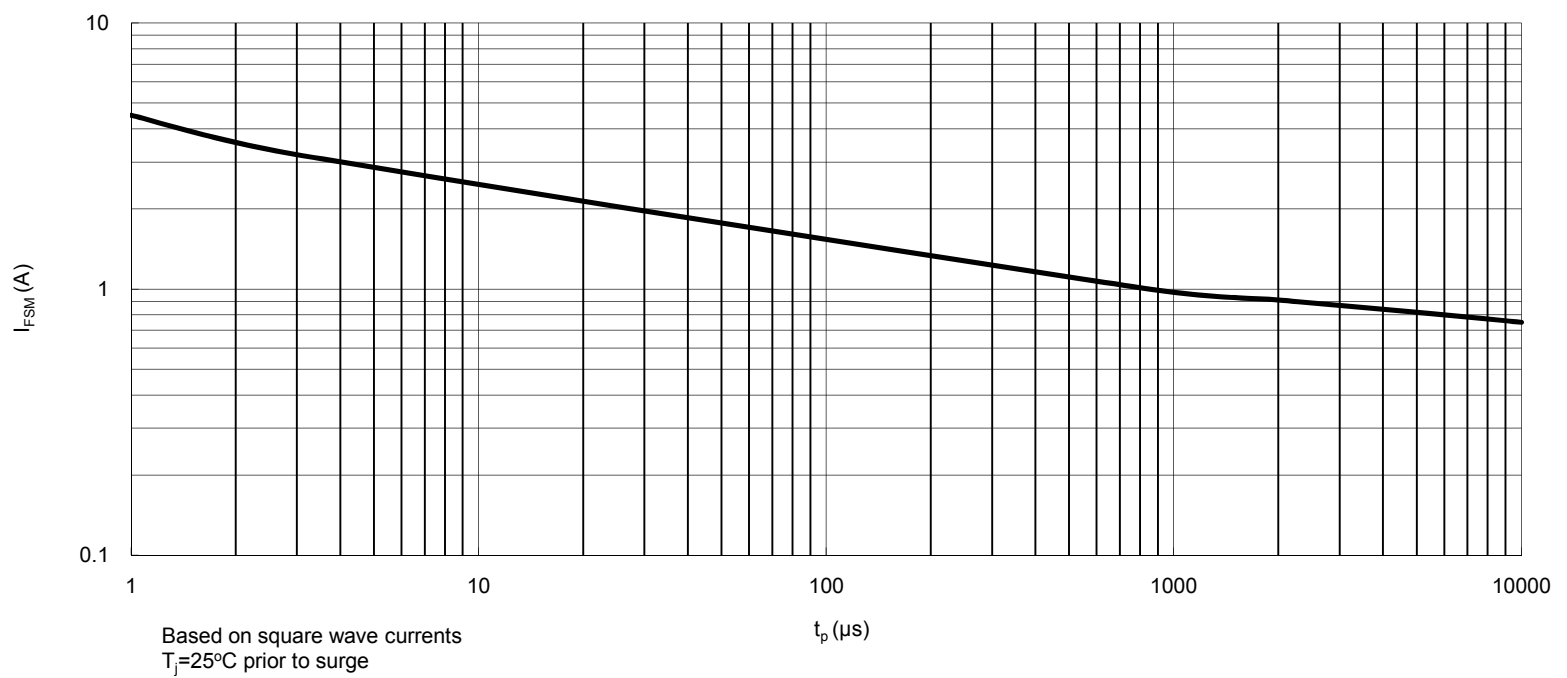


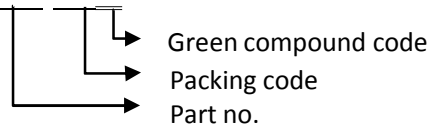
Fig. 3 Maximum Permissible Non-Repetitive Peak Forward Current As A Function of Pulse Duration



Small Signal Product

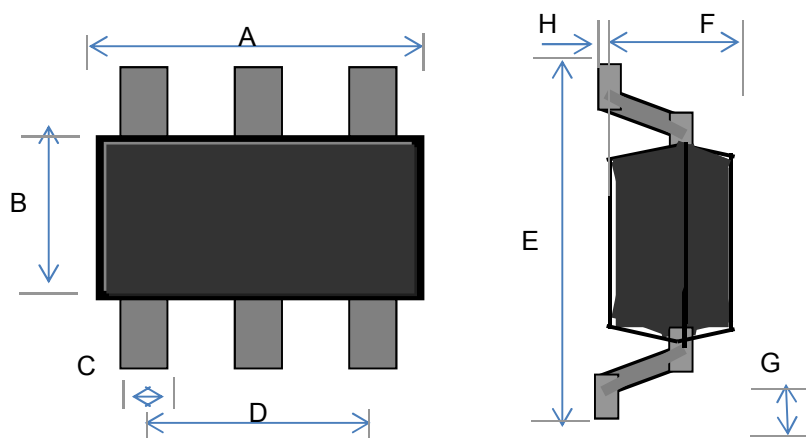
ORDER INFORMATION (EXAMPLE)

BAV99S RFG



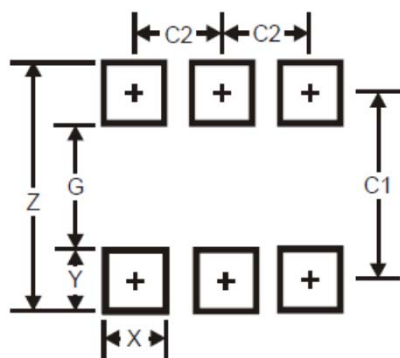
DIMENSIONS

SOT-363



DIM.	Unit (mm)		Unit (inch)	
	Min	Max	Min	Max
A	2.00	2.20	0.079	0.087
B	1.15	1.35	0.045	0.053
C	0.15	0.35	0.006	0.014
D	1.20	1.40	0.047	0.055
E	2.15	2.45	0.085	0.096
F	0.85	1.05	0.033	0.041
G	0.25	0.46	0.010	0.018
H	0.00	0.10	0.000	0.004

SUGGESTED PAD LAYOUT



DIM.	Unit (mm)	Unit (inch)
	Typ.	Typ.
Z	3.20	0.126
G	1.60	0.063
X	0.55	0.022
Y	0.80	0.031
C1	2.40	0.094
C2	0.95	0.037

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