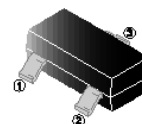


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Fast Switching Speed
- High Conductance
- Connected in Series
- Surface Mount Package Ideally Suited for Automatic Insertion

SOT-23



APPLICATIONS

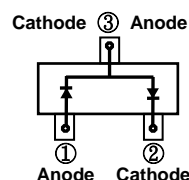
- High-Speed Switching in Thick and Thin-Film Circuits

MARKING

A7

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-23	3K	7 inch



ORDER INFORMATION

Part Number	Type
BAV99-C	Lead (Pb)-free and Halogen-free

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

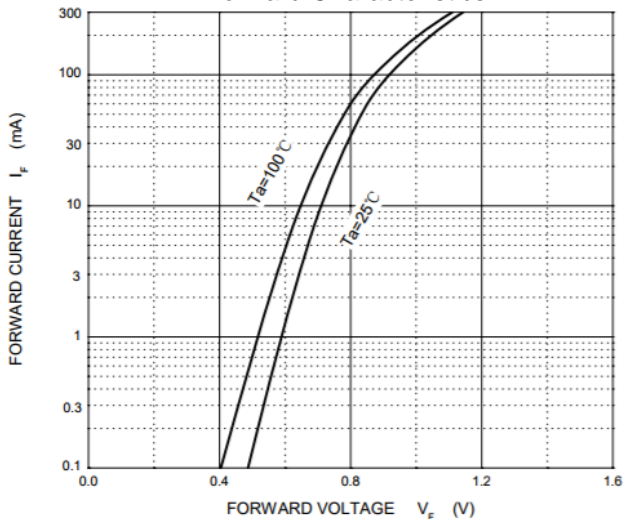
Parameter	Symbol	Ratings	Unit	
Reverse Voltage	V _R	75	V	
Maximum Reverse Voltage	V _{RM}	100		
Forward Current	I _F	215	mA	
Peak Forward Surge Current	I _{FSM}	t=8.3ms	2	A
		t=0.001ms	4	A
Power Dissipation	P _D	225	mW	
Thermal Resistance Junction-Ambient	R _{θJA}	556	°C/W	
Junction, Storage Temperature	T _J , T _{STG}	150, -55~150	°C	

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

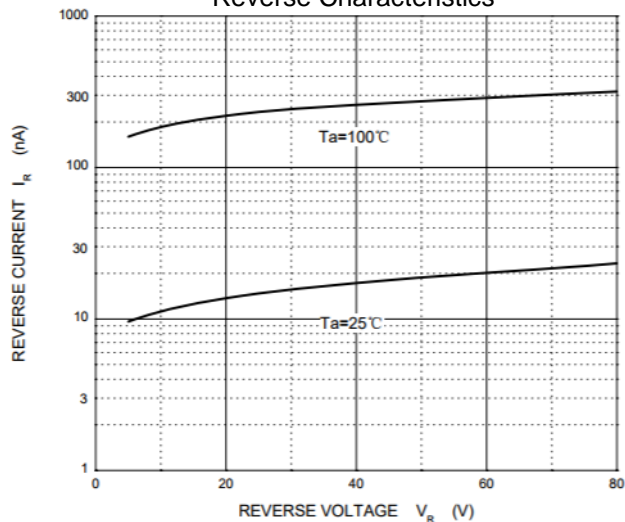
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Reverse Breakdown Voltage	V _{(BR)R}	75	-	-	V	I _{BR} =100μA
Leakage Current	I _R	-	-	2.5	μA	V _R =75V
Forward Voltage	V _F	-	-	715	mV	I _F =1mA
		-	-	855		I _F =10mA
		-	-	1000		I _F =50mA
		-	-	1250		I _F =150mA
Diode Capacitance	C _D	-	2	-	pF	V _R =0, f=1MHz
Reverse Recovery Time	T _{RR}	-	6	-	nS	I _F =I _R =10mA, I _{RR} =0.1xI _R R _L =100Ω

CHARACTERISTIC CURVES

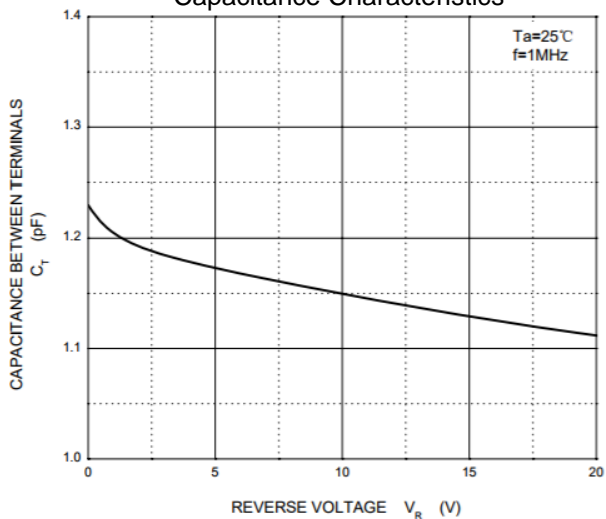
Forward Characteristics



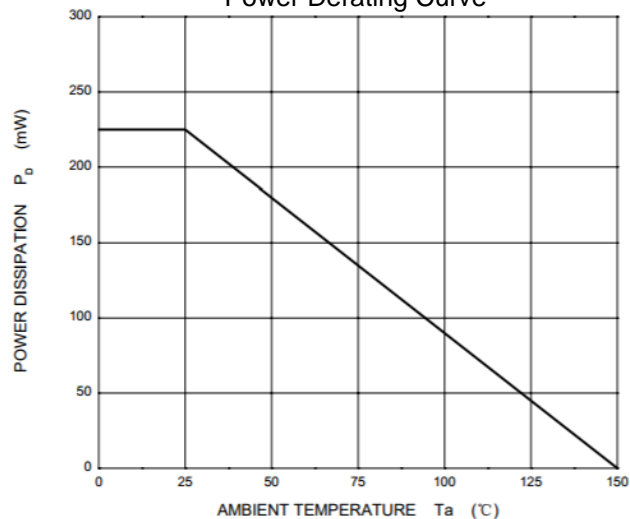
Reverse Characteristics



Capacitance Characteristics

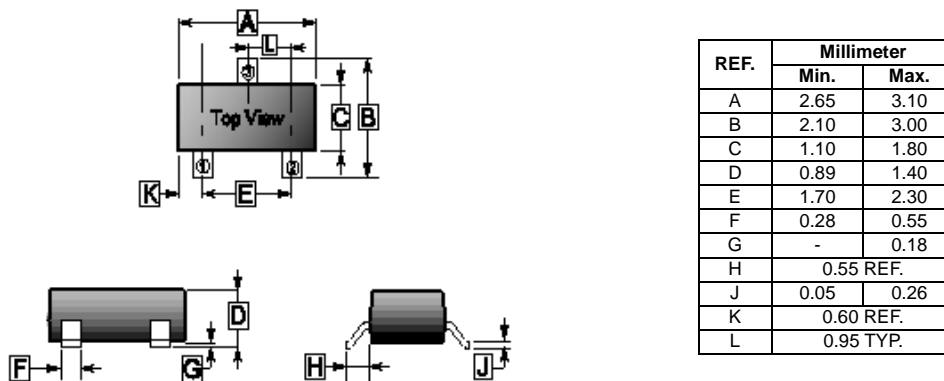


Power Derating Curve



PACKAGE OUTLINE DIMENSIONS

SOT-23



MOUNTING PAD LAYOUT

SOT-23

