

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

FEATURES

- For General Purpose Switching Applications
- Fast Switching Speed
- High Conductance
- Surface Mount Package Ideally Suited for Automatic Insertion

APPLICATIONS

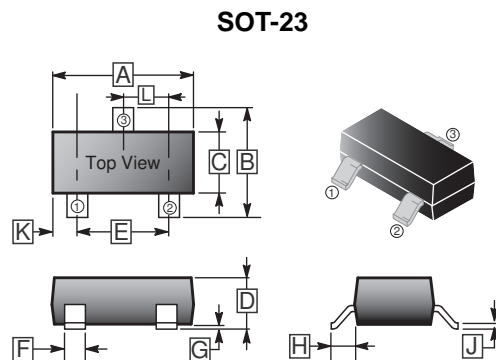
- High-Speed Switching Application

MARKING

HA1

PACKAGE INFORMATION

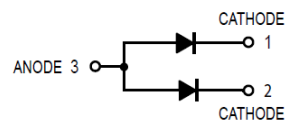
Package	MPQ	Leader Size
SOT-23	3K	7 inch



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.65	3.10	G	0	0.18
B	2.10	3.00	H	0.55	REF.
C	1.10	1.80	J	0.05	0.26
D	0.89	1.40	K	0.60	REF.
E	1.70	2.30	L	0.95	TYP.
F	0.28	0.55			

ORDER INFORMATION

Part Number	Type
BAW56R-C	Lead (Pb)-free and Halogen-free



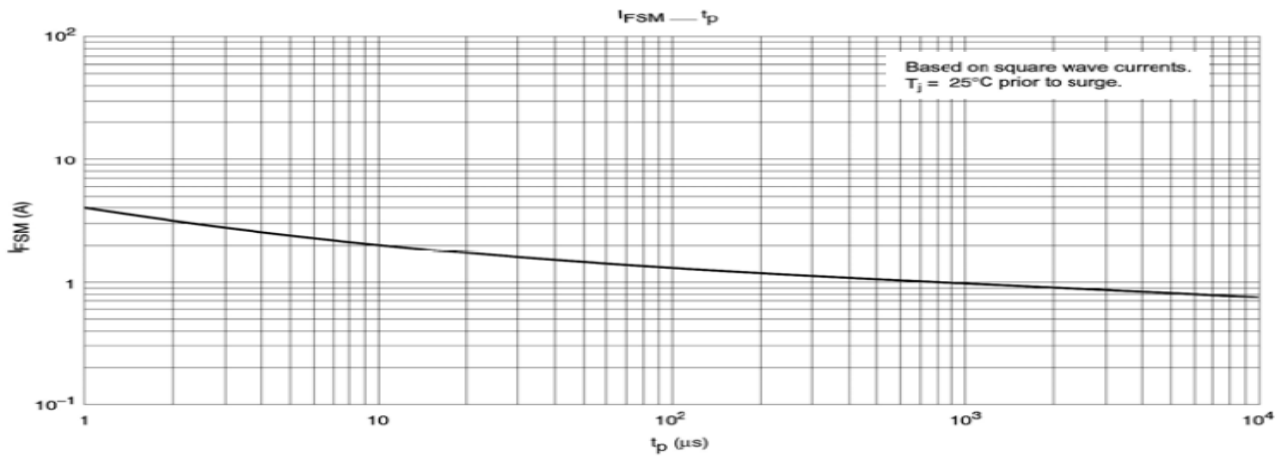
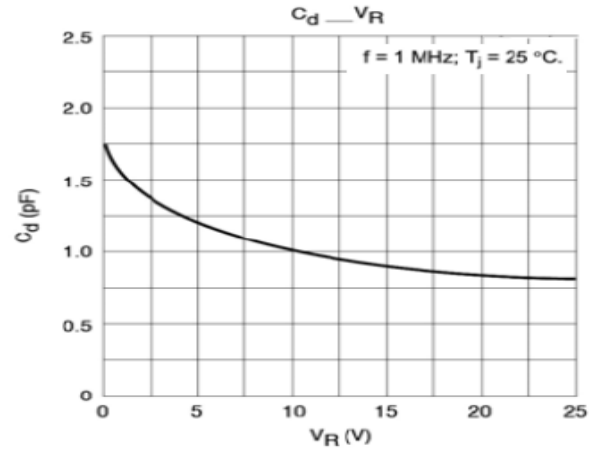
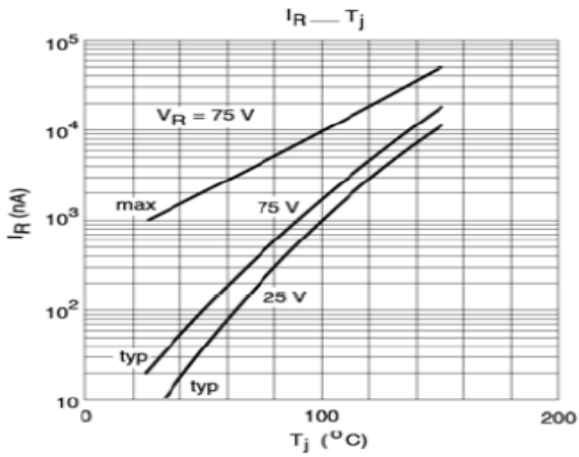
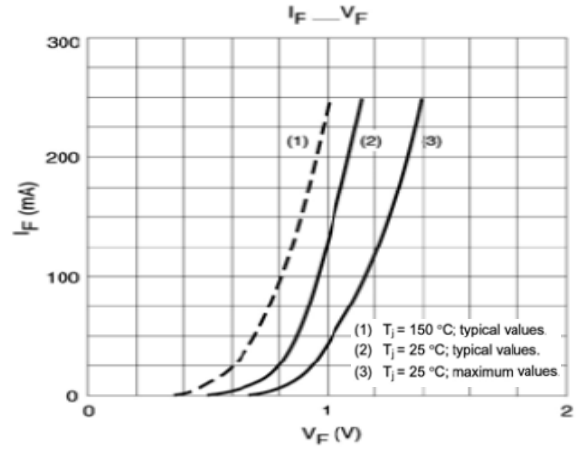
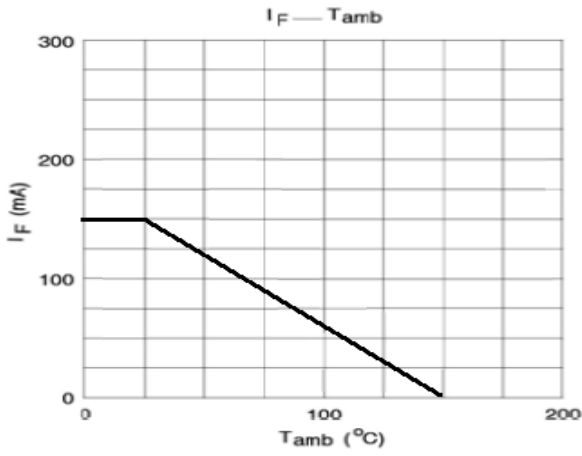
ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Ratings	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	85	V
Continuous Reverse Voltage	V _R	75	V
Average Rectified Forward Current	I _F	150	mA
Repetitive Peak Forward Current	I _{FRM}	450	mA
Non-repetitive Peak Forward Surge Current	I _{FSM}	t=1μs	4
		t=1ms	1
		t=1s	0.5
Power Dissipation	P _D	250	mW
Operating Junction & Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

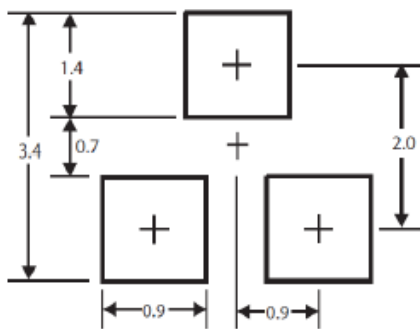
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Conditions
Forward Voltage	V _F	-	-	0.715	V	I _F =1mA
		-	-	0.855		I _F =10mA
		-	-	1		I _F =50mA
		-	-	1.25		I _F =150mA
Reverse Leakage Current	I _R	-	-	30	nA	V _R =25V
		-	-	1		V _R =75V
		-	-	30	μA	V _R =25V, T _A =150°C
		-	-	50		V _R =75V, T _A =150°C
Total Capacitance	C _T	-	2	-	pF	V _R =0, f=1MHz
Reverse Recovery Time	t _{rr}	-	4	-	nS	I _F =I _R =10mA, I _{rr} =1mA, R _L =100Ω
Forward Recovery Voltage	V _{ft}	-	-	1.75	V	I _F =10mA, t _r =20ns

RATINGS AND CHARACTERISTIC CURVES



Mounting Pad Layout



*Dimensions in millimeters