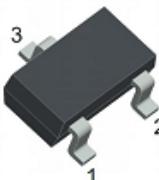
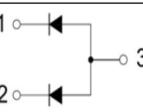
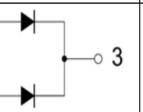
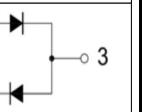


Switching Diodes		SOT-23 Plastic-Encapsulate Diodes
<u>SOT-23</u>		
 <p>BAW56</p>  <p>MARKING:A1</p> <p>BAV70</p>  <p>MARKING:A4</p> <p>BAV99</p>  <p>MARKING:A7</p>	<p>Features</p> <ul style="list-style-type: none"> • High Conductance • Fast Switching Speed • For General Purpose Switching Applications 	

Solid dot = Green molding compound device, if none, the normal device.

Maximum ratings (@Ta=25°C)

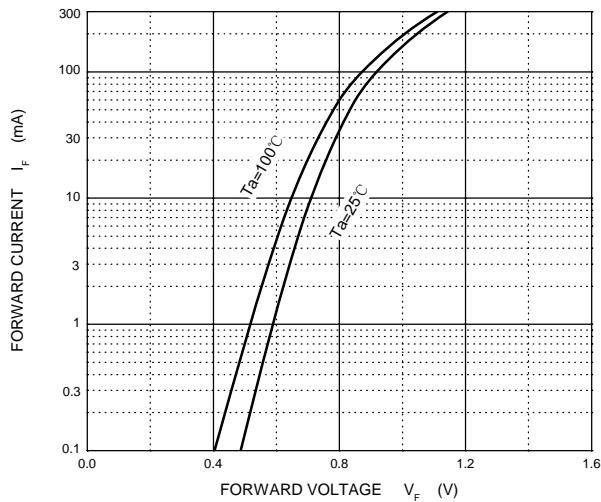
Parameter	Symbol	Limit	Unit
Reverse Voltage	VR	70	V
Forward Current	IF	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	IFSM	2.0	A
Power Dissipation	PD	225	mW
Thermal Resistance from Junction to Ambient	R _{θJA}	556	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55~+150	°C

Electrical Characteristics (@Ta=25°C)

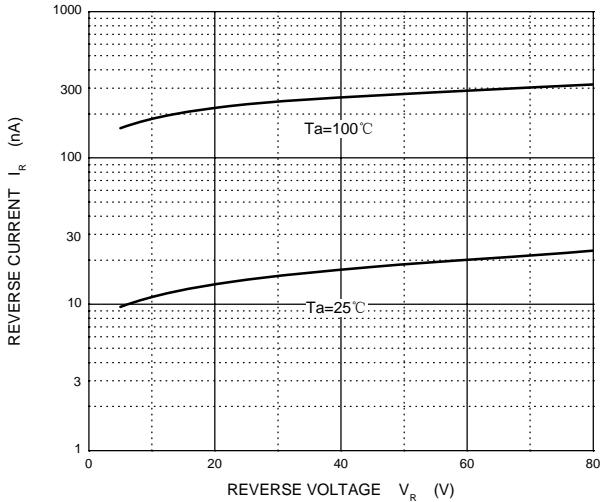
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse breakdown voltage	V(BR)	IR=100μA	70			V
Forward voltage	VF1	IF=1mA		0.57	0.715	V
	VF2	IF=10mA		0.714	0.855	V
	VF3	IF=50mA		0.83	1	V
	VF4	IF=150mA		0.97	1.25	V
Reverse current	IR	VR=70V			2.5	uA
capacitance Between terminals	C _{tot}	VR=0V,f=1MHz			1.5	PF
Reverse recovery time	t _{rr}	IF=IR=10mA, I _{rr} =0.1×IR,RL= 100 Ω			6	nS

Typical Characteristics

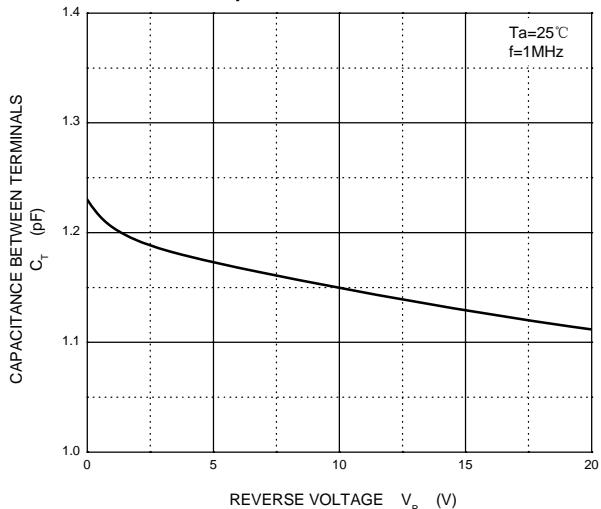
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve

