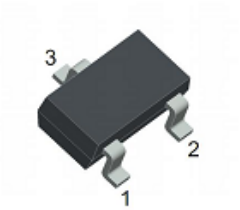
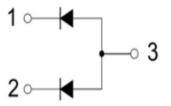
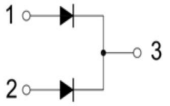
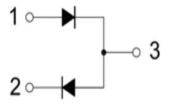
Switching Diodes	SOT-23 Plastic-Encapsulate Diodes

SOT-23



BAW56	BAV70	BAV99
		
MARKING:A1	MARKING A4	MARKING:A7

Features

- **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℃)

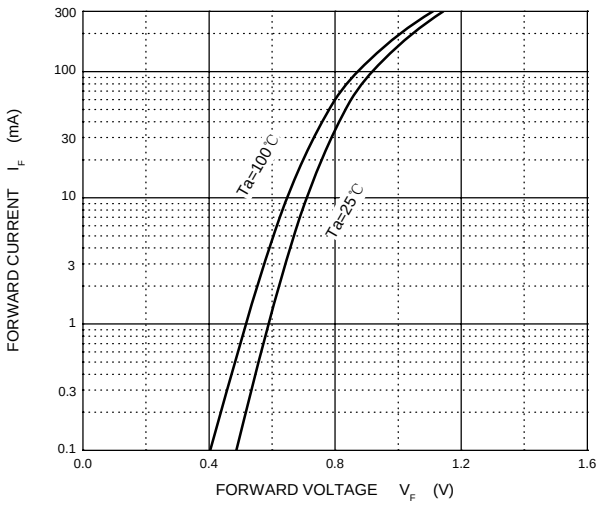
Parameter	Symbol	Limit	Unit
Reverse Voltage	VR	70	V
Forward Current	IF	200	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	IFSM	2.0	A
Power Dissipation	PD	225	mW
Thermal Resistance from Junction to Ambient	RθJA	556	℃/W
Junction Temperature	TJ	150	℃
Storage Temperature Range	TSTG	-55~+150	℃

Electrical Characteristics (@Ta=25℃)

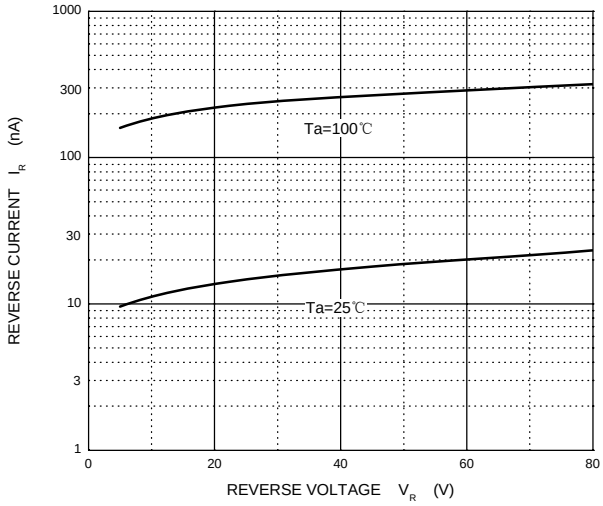
Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse breakdown voltage	V(BR)	IR=100μA	70			V
Forward voltage	VF1	IF=1mA			0.715	V
	VF2	IF=10mA			0.855	V
	VF3	IF=50mA			1	V
	VF4	IF=150mA			1.25	V
Reverse current	IR	VR=70V			2.5	uA
capacitance Between terminals	Ctot	VR=0V,f=1MHz			1.5	PF
Reverse recovery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

Typical Characteristics

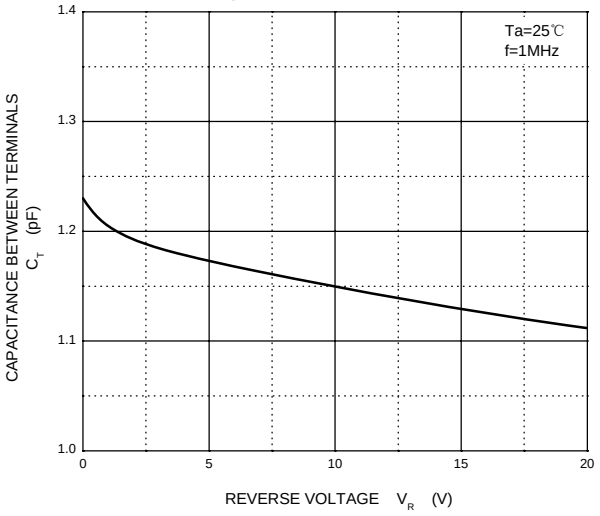
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve