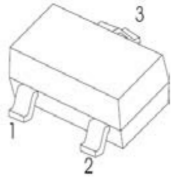
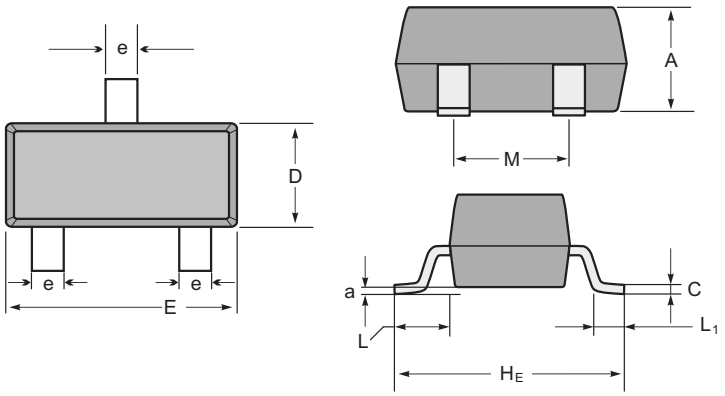
GOODWORK

BAW56/ BAV70/ BAV99
DUAL SWITCHING DIODE

FEATURES

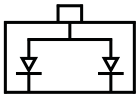
- Fast switching speed.
- For general purpose switching applications.
- High conductance.



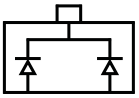


Marking

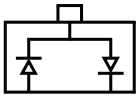
BAW56:A1



BAV70:A4



BAV99:A7



SOT-23 mechanical data

UNIT		A	C	D	E	HE	e	M	L	L1	a
mm	max	1.1	0.15	1.4	3.0	2.6	0.5	1.95	0.55 (ref)	0.36 (ref)	0.0
	min	0.9	0.08	1.2	2.8	2.2	0.3	1.7			0.15
mil	max	43	6	55	118	102	20	77	22 (ref)	14 (ref)	0.0
	min	35	3	47	110	87	12	67			6

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Vaule	Unit
V_R	Reverse Voltage	100	V
I_F	Forward Current	0.2	A
$I_{FM(SURGE)}$	Peak Forward Surge Current	0.5	A
P_D	Total Device Dissipation	0.225	W
$R_{\theta JA}$	Thermal Resistance Form Junction to Ambient	556	°C/W
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55~+150	°C

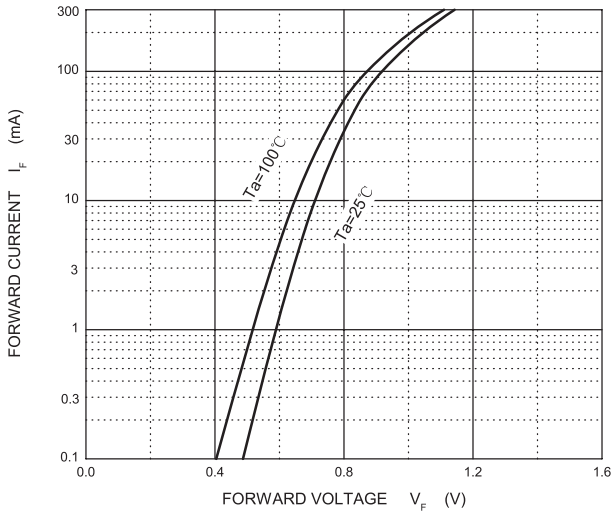
BAW56/ BAV70/ BAV99

ELECTRICAL CHARACTERISTICS (TA = 25°C unless otherwise noted.)

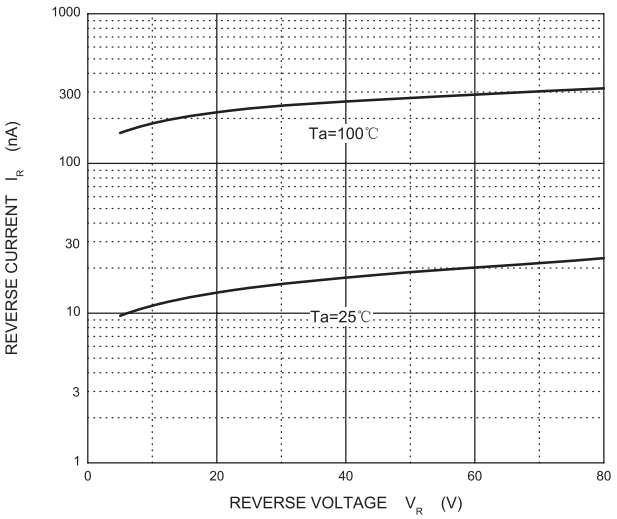
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse breakdown voltage	$V_{(BR)}$	I_R=100uA	100			V
Forward voltage	V_{F2}	I_F=1mA			0.715	V
	V_{F3}	I_F=10mA			0.855	V
	V_{F4}	I_F=50mA			1	V
	V_{F5}	I_F=150mA			1.25	V
Reverse current	I_R	V_R=25V			2.5	uA
Diode capacitance	C_T	V_R=1V,f=1MHz			1.5	pF
Reverse recovery time	t_{rr}	I_F=I_R=10mA, I_{RR}=0.1xI_R,R_L=100Ω			6	nS

RATING AND CHARACTERISTIC CURVES (BAW56/BAV70/BAV99)

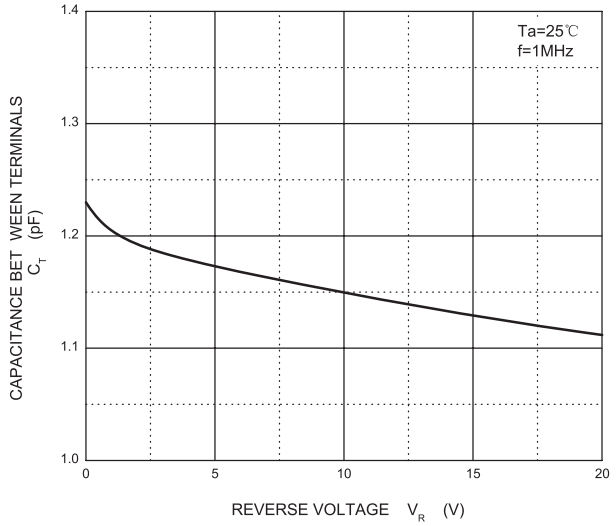
Forward Characteristics



Reverse Characteristics



Capacitance Characteristics



Power Derating Curve