



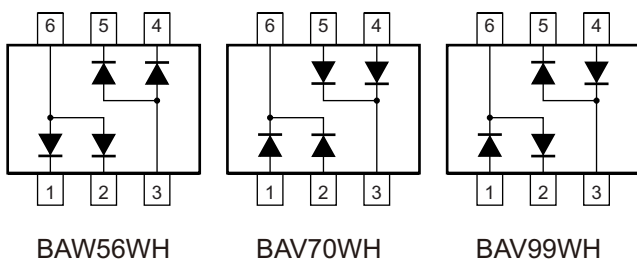
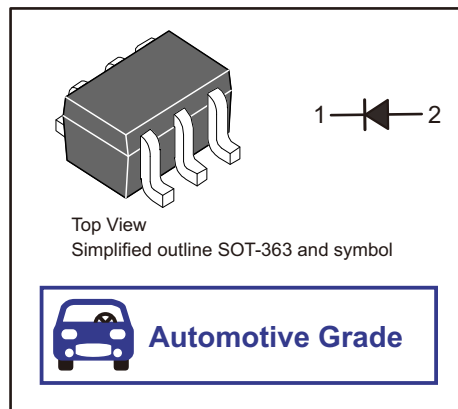
Switching Diodes

FEATURES

- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Qualified to AEC-Q101 Standards for High Reliability

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Maximum Ratings @Ta=25°C

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	100	V
Forward Current	I_F	200	mA
Non-Repetitive Peak Forward Surge Current @t=1ms	I_{FSM}	1.0	A
Power Dissipation	P_D	250	mW
Thermal Resistance Junction to Ambient	R_{thJA}	625	°C/W
Operation Junction and Storage Temperature Range	T_J, T_{STG}	-55 ~ +150	°C

Electrical Characteristics @Ta=25°C

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V_R	$I_R=100\mu A$	100			V
Forward voltage	V_{F1}	$I_F=1\text{ mA}$			0.715	V
	V_{F2}	$I_F=10\text{ mA}$			0.855	V
	V_{F3}	$I_F=50\text{ mA}$			1	V
	V_{F4}	$I_F=150\text{ mA}$			1.25	V
Reverse current	I_R	$V_R=25\text{ V}$			0.03	μA
		$V_R=80\text{ V}$			0.5	μA
Capacitance between terminals	C_T	$V_R=0, f=1\text{ MHz}$			1.5	pF
Reverse recovery time	t_{rr}	$I_F=I_R=10\text{ mA}, I_{rr}=0.1 \times I_R, R_L=100\Omega$			4	ns



Fig.1 Power Derating Curve

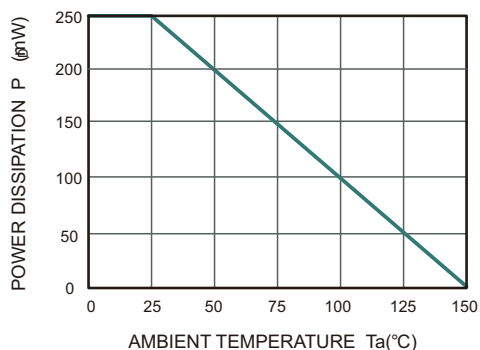


Fig.2 Reverse Characteristics

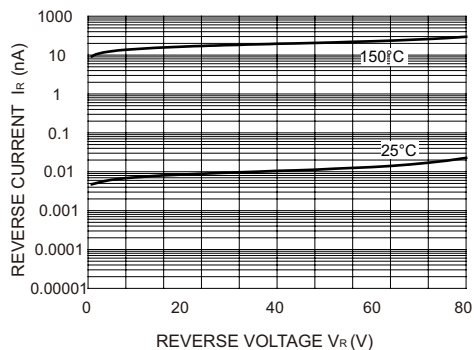


Fig.3 Forward Characteristics

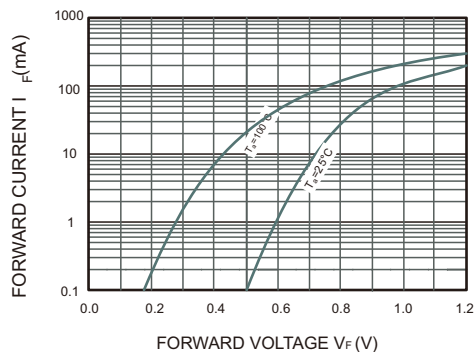
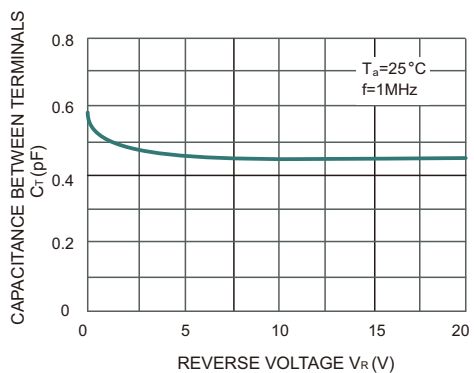
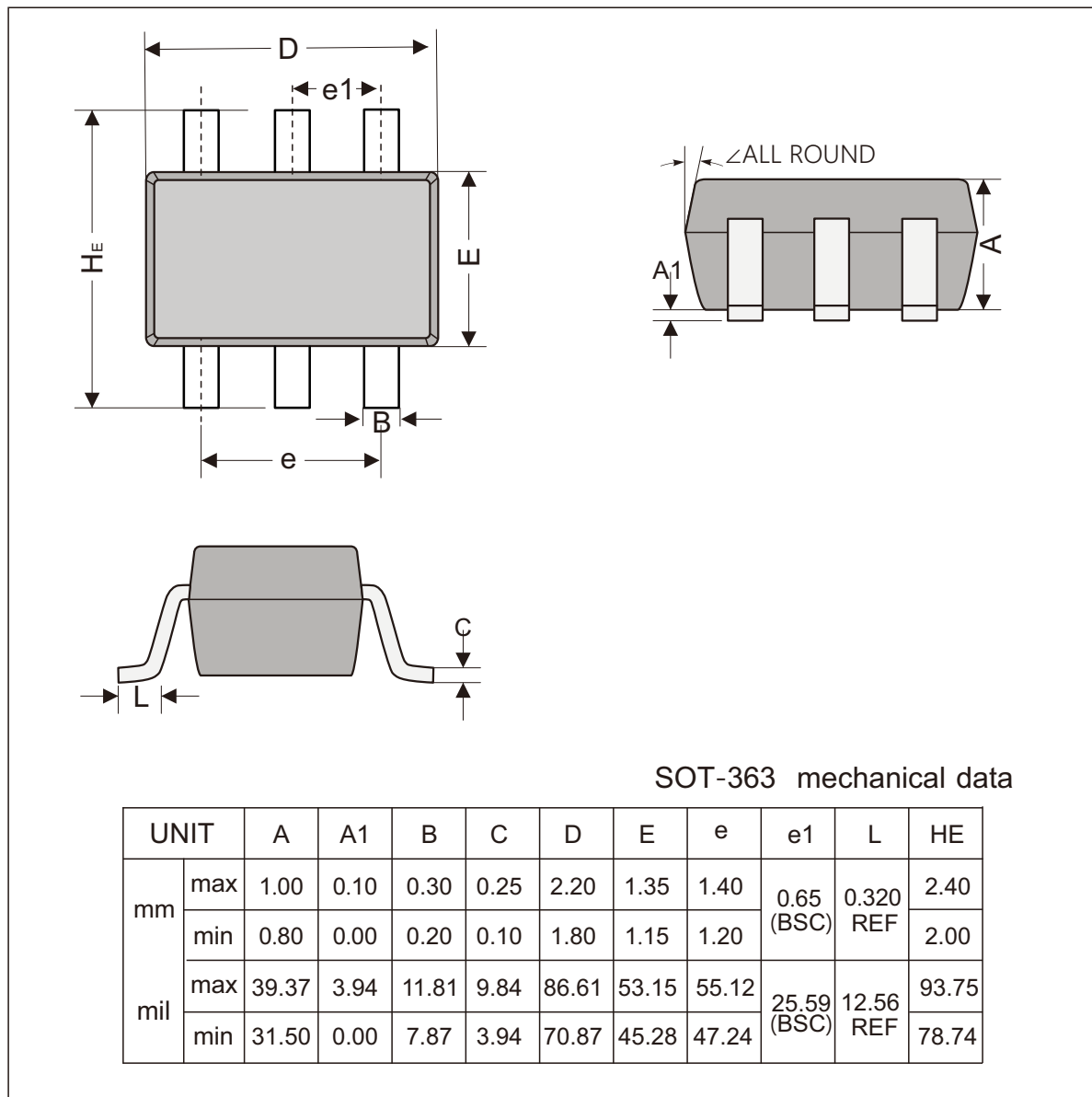


Fig.4 Capacitance Characteristics

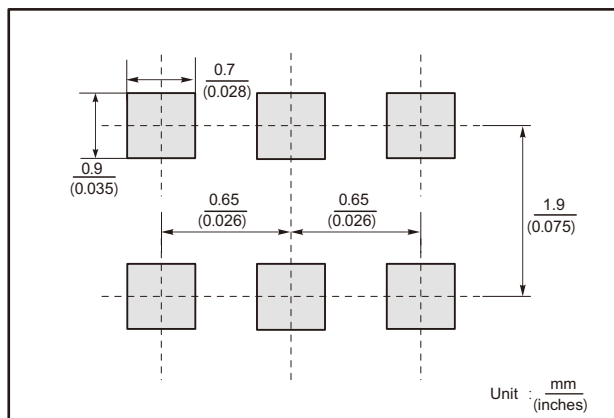




SOT-363 Package Outline Dimensions



The recommended mounting pad size



Marking

Type number	Marking code
BAW56WH	B5H
BAV70WH	B7H
BAV99WH	B9H



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