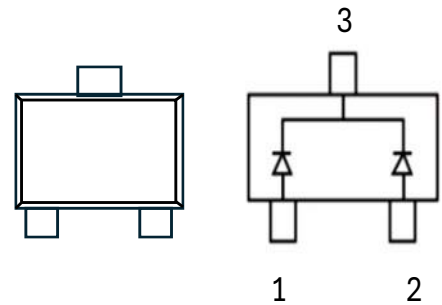


FEATURES AND BENEFITS

Product Summary		
I_{FM}	100mA	@25 °C
V_F	0.715V	@1mA
V_{RRM}	75V	@25 °C

- For High-Speed Switching Applications
- High Conductance
- RoHS Compliant / Green EMC UL Flammability Classification Rating 94V-0
- Matte Tin (Sn) Lead finish Solderable per MIL-STD-202, Method 208
- Moisture Sensitivity: Level 1 per J-STD-020

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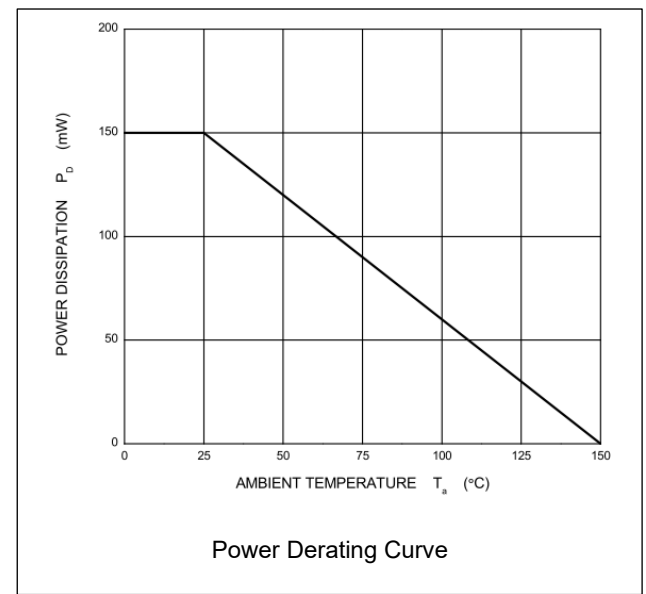
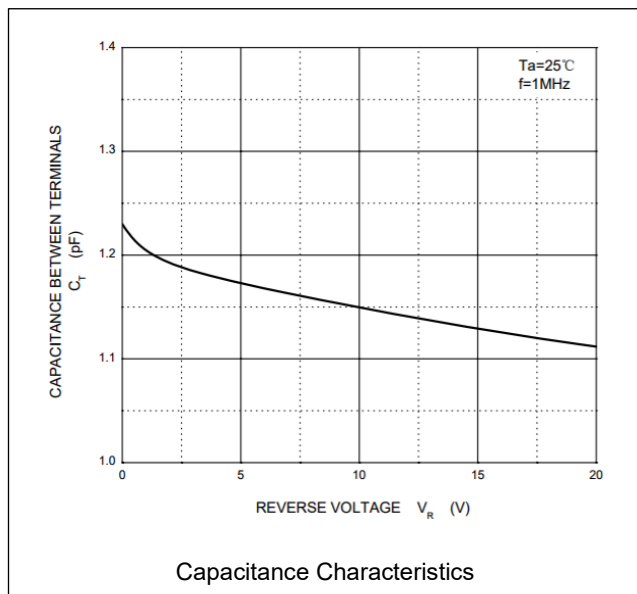
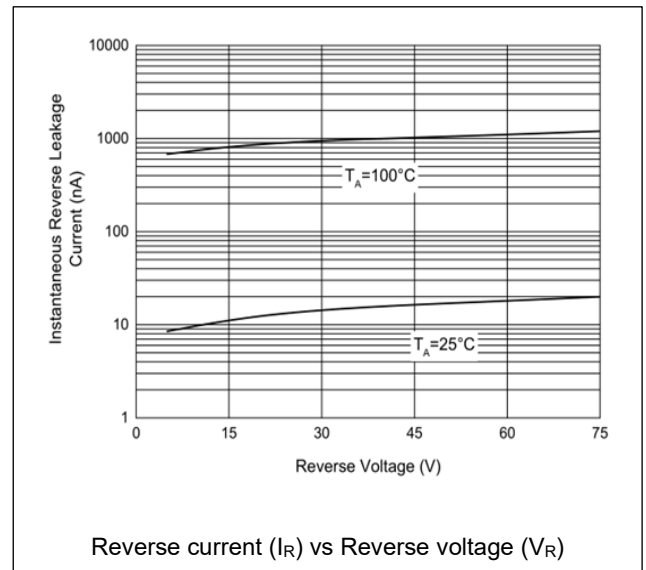
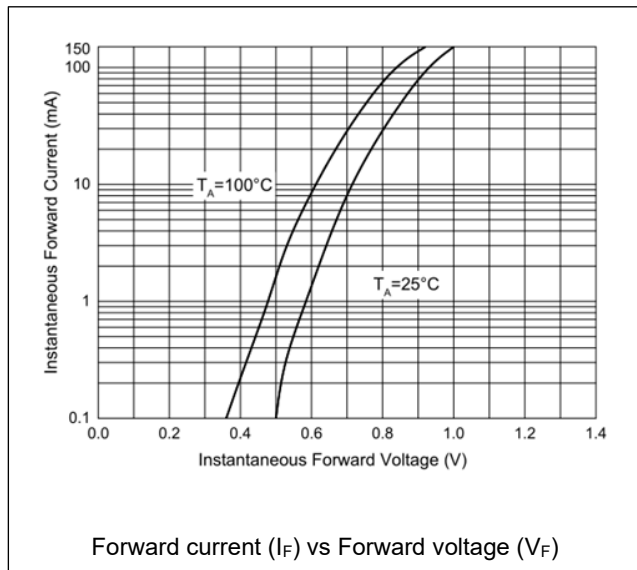
Maximum Ratings (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Repetitive Peak Reverse Voltage	V_{RRM}	75	V
Working Reverse Voltage	V_{RWM}	75	V
Forward Continuous Current	I_{FM}	100	mA
Non-Repetitive Peak Forward Surge Current (@ t = 1.0us)	I_{FSM}	2	A
Power Dissipation	P_{TM}	150	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55 to +150	°C

THERMAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)			
PARAMETER	SYMBOL	VALUE	UNIT
Thermal Resistance from Junction to Ambient*	$R_{\theta JA}$	833	°C/W

* Device mounted on 1"x1" FR4 PCB

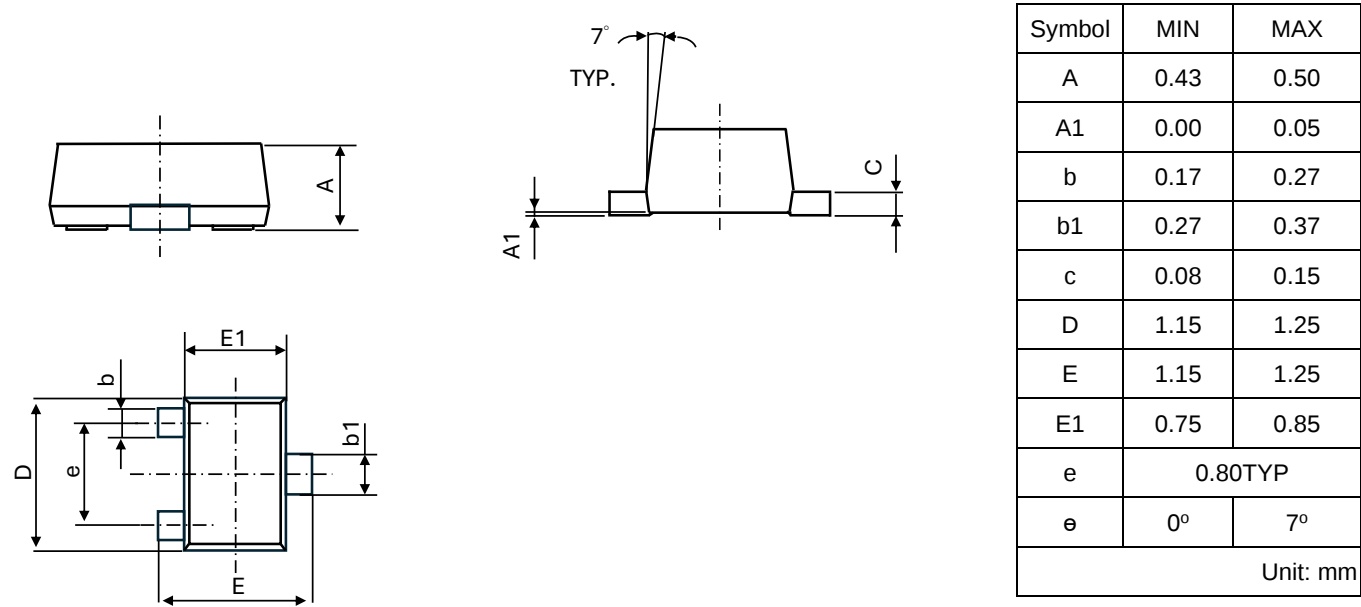
ELECTRICAL CHARACTERISTICS (TA = 25 °C unless otherwise noted)					
PARAMETER	SYMBOL	CONDITION	MIN	MAX	UNIT
Forward Voltage	V _F	I _F = 1mA		0.715	V
		I _F = 10mA		0.855	
		I _F = 50mA		1.00	
		I _F = 150mA		1.25	
Reverse Current	I _R	V _R = 25V		25	nA
		V _R = 75V		2.5	μA
Reverse Breakdown Voltage	V _{BR}	I _R = 100μA	75		V
Capacitance	C _T	V _R = 0V, f = 1MHz		2	pF
Reverse Recovery Time	t _{rr}	I _F = I _R = 10mA, I _{rr} = 0.1 * I _R , V _R = 6.0V R _L = 50Ω		4	ns

RATING AND CHARACTERISTICS CURVES

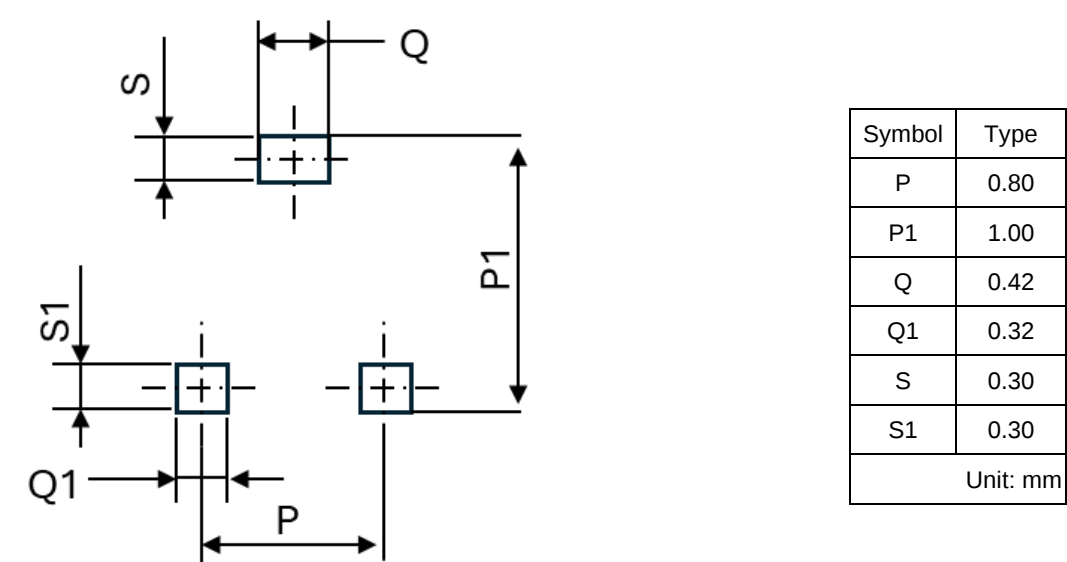


PACKAGE OUTLINE DIMENSIONS

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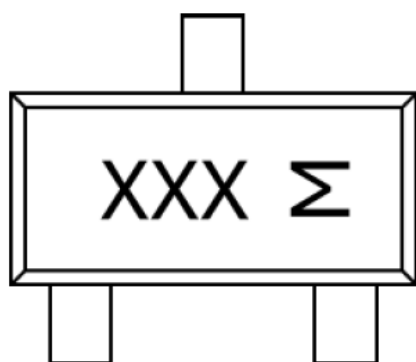


SUGGESTED PAD LAYOUT



DEVICE MARKING CODE AND ORDERING INFORMATION

DEVICE	Marking	Quantity	Packing
BAV70M	A4	8000/7"Reel	Tape & Reel



XXX: Product Marking Code

Σ : Date Code (Rotate 90° counterclockwise)

Odd Year	Even Year
1	E
2	F
3	H
4	J
5	K
6	L
7	N
8	P
9	U
T	X
V	Y
C	Z

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