

Maximum Ratings and Thermal Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Reverse Voltage		V _R	100	V
Peak Reverse Voltage		V _{RM}	100	V
Maximum Average Forward Current		I _{F(AV)}	150	mA
Non-repetitive Peak forward current at T_J (init)=25°C	tp = 1 us	I _{FSM}	4	А
Power Dissipation		PD	200	mW
Maximum Junction Capacitance Measured at 1 MHZ And Applied $V_R = 0 V$		CJ	1.5	pF
Typical Thermal Resistance		$R_{\theta JA}^{(1)}$	625	°C/W
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		T _{STG}	-55~150	°C





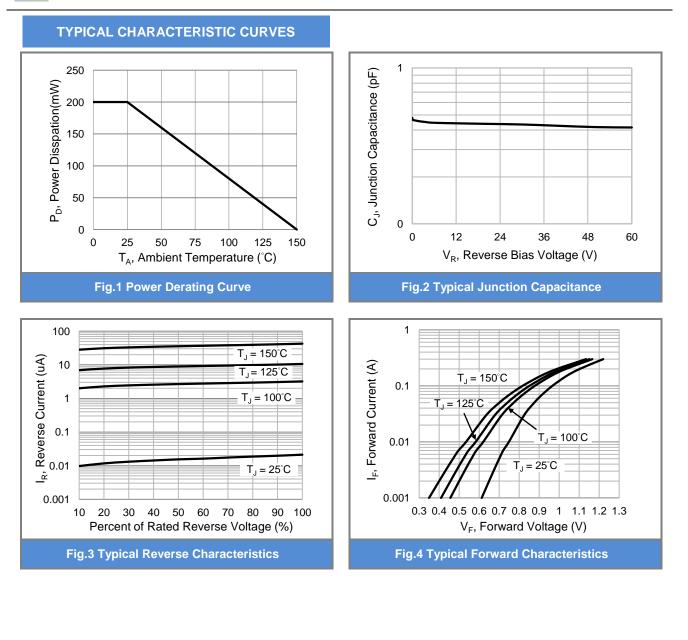
Electrical Characteristics ($T_A = 25^{\circ}C$ unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Forward Voltage	V _F	$I_{F} = 1 \text{ mA}, T_{J} = 25 \degree C$	-	-	0.715	V	
		$I_F = 10 \text{ mA}, T_J = 25 \degree \text{C}$	-	-	0.855		
		$I_F = 50 \text{ mA}, \text{ T}_J = 25 ^{\circ}\text{C}$	-	-	1		
		I _F = 150 mA, T _J = 25 °C	-	-	1.25		
Reverse Current	I _R	$V_{R} = 25 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	0.03	uA	
		$V_{R} = 100 \text{ V}, \text{ T}_{J} = 25 ^{\circ}\text{C}$	-	-	0.5		
Maximum Reverse Recovery Time	T _{RR} ⁽²⁾		-	-	4	ns	

NOTES:

- 1. Mounted on a FR4, single-sided copper, with mini pad.
- 2. Test Condition : I_F = 10 mA to I_R = 10 mA, Recovery to 1mA, R_L = 100 Ω .



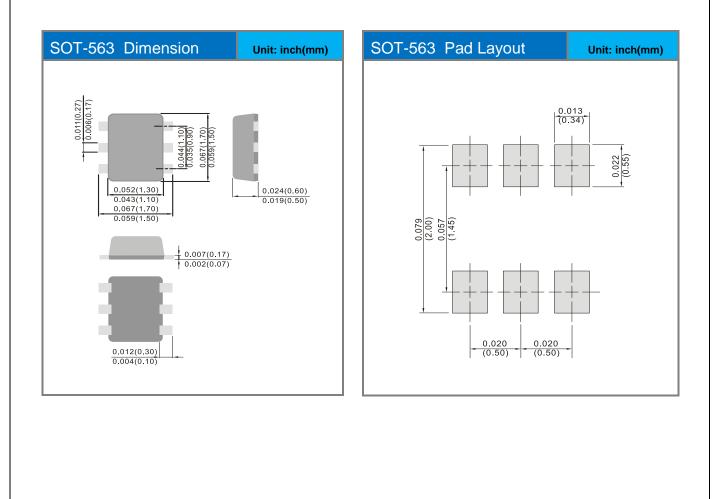




Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
BAW56E6_R1_00001	SOT-563	4K / 7" Reel	6E6	Halogen free

Packaging Information & Mounting Pad Layout





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