



Maximum Ratings and Thermal Characteristics (T_A = 25 °C unless otherwise noted)

PARAMETER		SYMBOL	LIMIT	UNITS
Reverse Voltage		VR	85	V
Peak Reverse Voltage	Vrm	100	V	
Continuous Forward Current		l _F	0.2	А
Non-repetitive Peak Forward Surge Current	tp = 1 us	IFSM	4	А
Power Dissipation		Ртот	150	mW
Typical Thermal Resistance		R _{θJA}	833	°C/W
Operating Junction Temperature Range		TJ	-55~150	°C
Storage Temperature Range		T _{STG}	-55~150	°C



PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS	
Reverse Breakdown Voltage	V _{BR}	I _R = 100 uA	85	-	-	V	
Forward Voltage	VF	I _F = 1 mA, T _J = 25 °C	-	-	0.9	v	
		I⊧ = 10 mA, TJ = 25 °C	-	-	1		
		I⊧ = 50 mA, TJ = 25 °C	-	-	1.1		
		I⊧ = 150 mA, TJ = 25 °C	-	-	1.25		
Reverse Current	IR	V _R = 85 V, T _J = 25 °C	-	0.002	5	nA	
		V _R = 85 V, T _J = 150 °C	-	8	80		
Total Capacitance	CJ	$V_R = 0 V$, f=1MHz	-	-	2	pF	
Reverse Recovery Time	T _{RR}	I⊧=I _R =10mA, R∟=100 Ω	-	-	3	us	

Electrical Characteristics (T_A = 25 °C unless otherwise noted)



TYPICAL CHARACTERISTIC CURVES



Fig.3 Total Capacitance vs. Reverse Voltage



Fig.2 Forward Current vs. Forward Voltage



Product and Packing Information

Part No.	Package Type	Packing Type	Marking
BAS116TB	SOT-523	4K pcs / 7" reel	PA
BAW156TB	SOT-523	4K pcs / 7" reel	P4
BAV170TB	SOT-523	4K pcs / 7" reel	P3
BAV199TB	SOT-523	4K pcs / 7" reel	PB

Packaging Information & Mounting Pad Layout





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