

Small Signal Product

Hermetically Sealed Glass Fast Switching Schottky Barrier Diode

FEATURES

- Low forward voltage drop
- Through-hole device type mounting
- Hermetically sealed glasss
- Compression bonded construction
- Solder hot dip tin (Sn) lead finish
- All external surfaces are corrosion resistant and leads are readily solderable







DO-35

Hermetically Sealed Glass

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T _A =25°C unless otherwise noted)					
PARAMETER	SYMBOL	VALUE	UNIT		
Power Dissipation	P _D	200	mW		
Repetitive Peak Reverse Voltage	V_{RRM}	30	V		
Maximum DC Blocking Voltage	V _R	30	V		
Average Forward Rectified Current	I _{F(AV)}	200	mA		
Peak Forward Surge Current	I _{FSM}	4	А		
Operating and Storage Temperature Range	T_J,T_STG	-65 to +125	°C		

PARAMETER			SYMBOL	MIN	MAX	UNIT
Breakdown Voltage		I _R =100μA	B _V	30	-	V
Forward Voltage Drop All Types	BAT42	I _F =200mA		-	1.00	
		I _F =10mA	1	-	0.40	
		I _F =50mA		-	0.65	V
	BAT43	I _F =200mA	V _F	-	1.00	
		I _F =2mA	1	0.26	0.33	
		I _F =15mA	1	-	0.45	
Maximum Peak Reverse Current V _R =25V		I _R	500		nA	
Junction Capacitance V _R =1V, f=1.0MHz		C _J	7 (Typ)		pF	
Reverse Recovery Time (Note 1)		t _{rr}	5 (Typ)		ns	

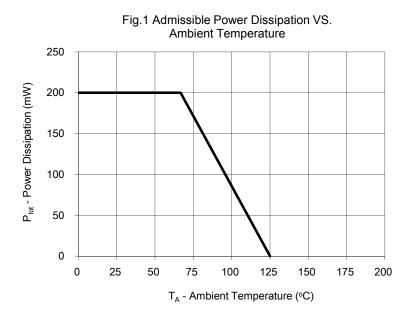
Note 1: Reverse recovery test conditions: $I_F = I_R = 10 \text{mA}$, $I_{RR} = 1 \text{mA}$, $R_L = 100 \Omega$

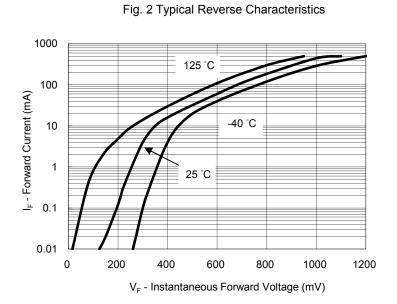


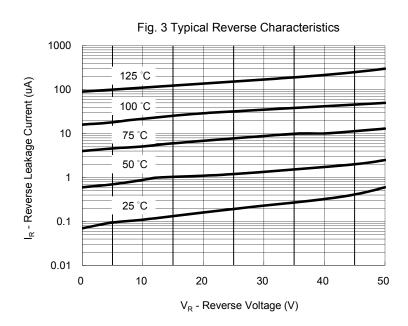
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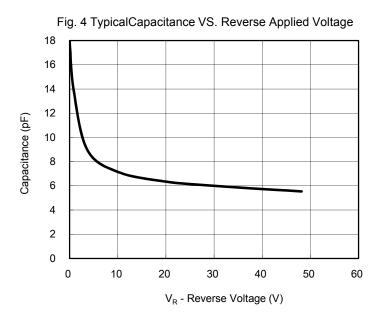
RATINGS AND CHARACTERISTICS CURVES

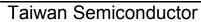
(T_A=25°C unless otherwise noted)













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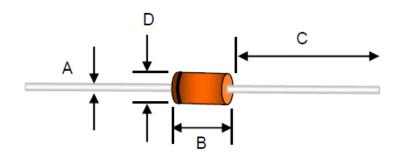
ORDERING INFORMATION						
PART NO.	PART NO.	PACKING	PACKING CODE	PACKAGE	PACKING	
	SUFFIX (Note 2)	CODE	SUFFIX	PACKAGE		
BAT4x	BAT4x	R0	G	DO-35	10K / 14" Reel	
(Note1)	A0	G	DO-33	5K / Box (Ammo)		

Note 1: "x" is Device Code from "2" thru "3".

Note 2: Part No. Suffix "-xx " would be used for special requirement

EXAMPLE					
PREFERRED P/N	PART NO.	PART NO. SUFFIX	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
BAT42 R0G	BAT42		R0	G	Multiple manufacture source Green compound
BAT42-L0 R0G	BAT42	-L0	R0	G	Define manufacture source Green compound

PACKAGE OUTLINE DIMENSION



DIM.	Unit	(mm)	Unit (inch)		
	Min	Max	Min	Max	
Α	0.34	0.60	0.013	0.024	
В	2.90	5.08	0.114	0.200	
С	25.40	38.10	1.000	1.500	
D	1.30	2.28	0.051	0.090	

MARKING DIAGRAM

BAT 4X

"x" is Device Code from "2" thru "3".



Taiwan Semiconductor



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