

200mW, Hermetically Sealed Glass Fast Switching Schottky Barrier Diodes

FEATURES

- · Hermetically sealed glasss
- Compliant to RoHS directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21

APPLICATIONS

- Adapters
- For switching power supply
- · Low stored charge
- Inverter

KEY PARAMETERS					
PARAMETER	VALUE	TINU			
P_D	200	mW			
V_{RRM}	30	V			
I _{FSM}	4	Α			
V _F at I _F =200mA	1	V			
T, Max.	125	Ŝ			
Package	DO-35				
Configuration	Single die				

MECHANICAL DATA

Storage temperature range

• Case: DO-35

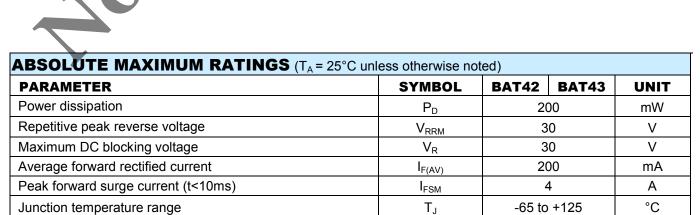
• Terminal: Matte tin plated leads, solderable per J-STD-002

• Meet JESD 201 class 1A whisker test

· Polarity: Indicated by cathode band







1

 T_{STG}

-65 to +125

°C



ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)						
PARAMETER	CONDITIONS		SYMBOL	MIN	MAX	UNIT
Reverse voltage (2)	I _R = 100 μA, T _J = 25°C		V _R	30	-	V
Reverse current (2)	V _R = 25 V, T _J = 25°C		I _R	-	500	nA
Forward voltage ⁽¹⁾	I _F = 200mA, T _J = 25°C	BAT42		-	1.00	
	$I_F = 10 \text{mA}, T_J = 25 ^{\circ}\text{C}$			A -	0.40	
	I _F = 50mA, T _J = 25°C		\/		0.65	V
	$I_F = 200 \text{mA}, T_J = 25^{\circ}\text{C}$		V _F	-	1.00	V
	$I_F = 2mA, T_J = 25^{\circ}C$	BAT43		0.26	0.33	
	I _F = 15mA, T _J = 25°C			_	0.45	
Junction capacitance	1 MHz, V _R =1V		Cı	7 (T	yp.)	pF
Reverse recovery time	$I_F = I_R = 10 \text{mA}$ $R_L = 100 \Omega$, $I_{RR} = 1 \text{mA}$		t _m	5 (T	yp.)	ns

2

Notes:

- 1. Pulse test with PW=0.3 ms
- 2. Pulse test with PW=30 ms

ORDERING INFORMATION				
PART NO.	PACKAGE	PACKING		
BAT42 R0	DO-35	10K / 14" Reel		
BAT42 R0G	DO-35	10K / 14" Reel		
BAT42 A0	DO-35	5K / Box (Ammo)		
BAT42 A0G	DO-35	5K / Box (Ammo)		
BAT43 R0	DO-35	10K / 14" Reel		
BAT43 R0G	DO-35	10K / 14" Reel		
BAT43 A0	DO-35	5K / Box (Ammo)		
BAT43 A0G	DO-35	5K / Box (Ammo)		
Y				



CHARACTERISTICS CURVES

(T_A = 25°C unless otherwise noted)

Fig. 1 Admissible Power Dissipation VS.

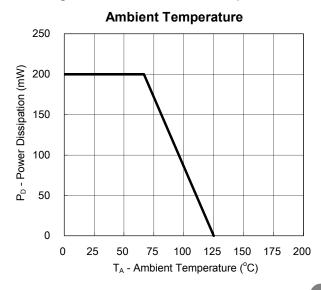


Fig. 2 Typical Reverse Characteristics

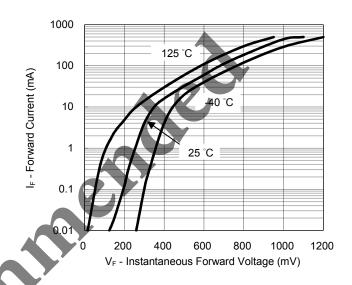


Fig. 3 Typical Reverse Characteristics

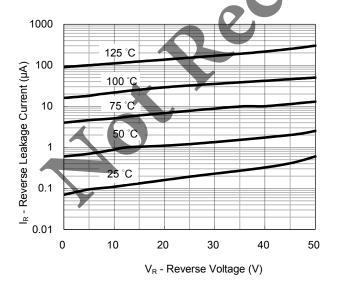
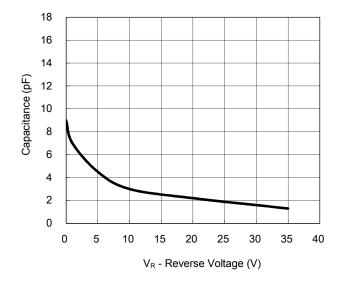
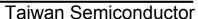


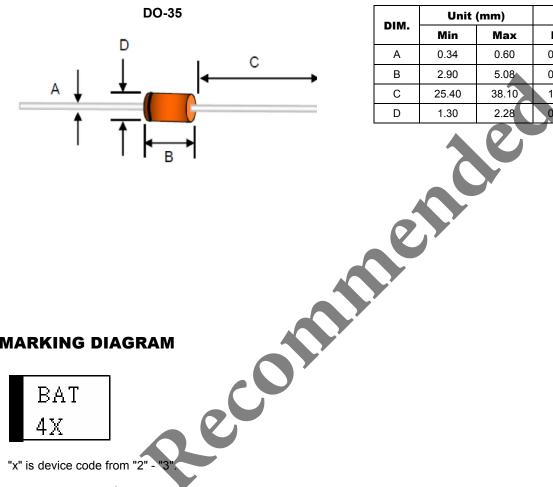
Fig.4 TypicalCapacitance VS. Reverse Applied Voltage







PACKAGE OUTLINE DIMENSION



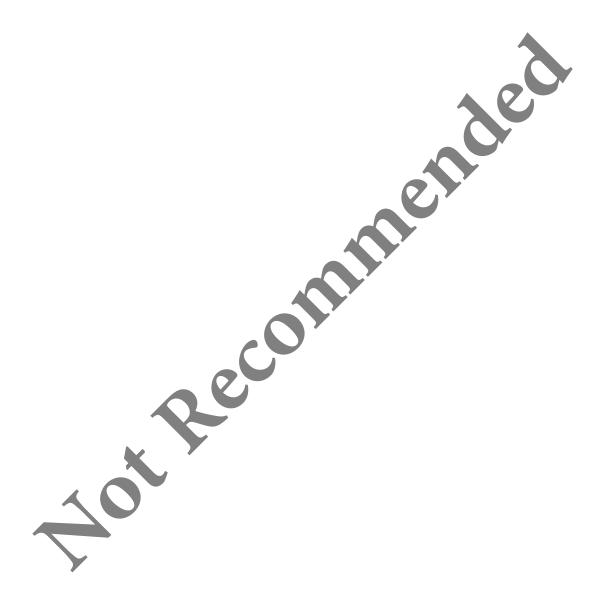
DIM	Unit (mm)		Unit (inch)		
DIM.	Min	Max	Min	Max	
Α	0.34	0.60	0.013	0.024	
В	2.90	5.08	0.114	0.200	
С	25.40	38.10	1.000	1.500	
D	1.30	2.28	0.051	0.090	

MARKING DIAGRAM



"x" is device code from "2" -





Notice

Specifications of the products displayed herein are subject to change without notice. TSC or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, to any intellectual property rights is granted by this document. Except as provided in TSC's terms and conditions of sale for such products, TSC assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of TSC products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify TSC for any damages resulting from such improper use or sale.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Diodes - General Purpose, Power, Switching category:

Click to view products by Taiwan Semiconductor manufacturer:

Other Similar products are found below:

MCL4151-TR3 MMBD3004S-13-F RD0306T-H RD0506LS-SB-1H RGP30G-E373 DSE010-TR-E BAQ333-TR BAQ335-TR BAQ33-GS18 BAS1602VH6327XT BAV17-TR BAV19-TR BAV301-TR BAW27-TAP HSC285TRF-E NSVBAV23CLT1G NTE525 1SS181-TP 1SS184-TP 1SS193,LF 1SS193-TP 1SS400CST2RA SBAV99LT3G SDAA13 LL4448-GS18 SHN2D02FUTW1T1G LS4150GS18 LS4151GS08 SMMBD7000LT3G FC903-TR-E 1N4449 1N4934-E3/73 1SS226-TP APT100DL60HJ RFUH20TB3S RGP30G-E354 RGP30M-E3/73 D291S45T MCL4151-TR BAS 16-02V H6327 BAS 21U E6327 BAS 28 E6327 BAS33-TAP BAS 70-02V H6327 BAV300-TR BAV303-TR3 BAW27-TR BAW56DWQ-7-F BAW56M3T5G BAW75-TAP