

Featured Products



Provides automotive-grade reliability

TVS Diodes for CAN Communication Protection

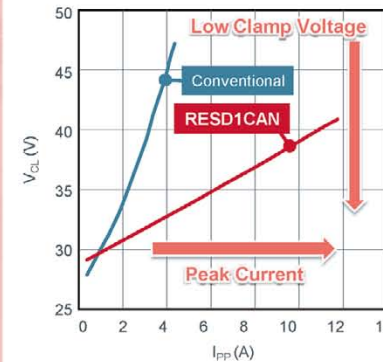
RESD1CAN

RESD1CAN

- Ideal for the increasingly adopted CAN BUS communication standard**
- Low clamp voltage delivers application protection and High reliability**
- High ESD immunity and breakdown tolerance (High I_{PP} , P_{PP})**
- Automotive-grade (High traceability)**
- Stable supply (Multiple production facilities)**
- In-house management of all processes through a vertically integrated production system**
- Ideal for CAN Bus**

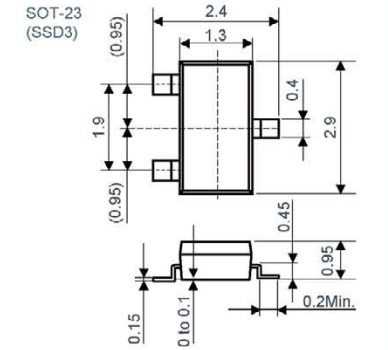
Application Protection Ensured Through Low Clamp Voltage

Peak Current vs Clamp Voltage



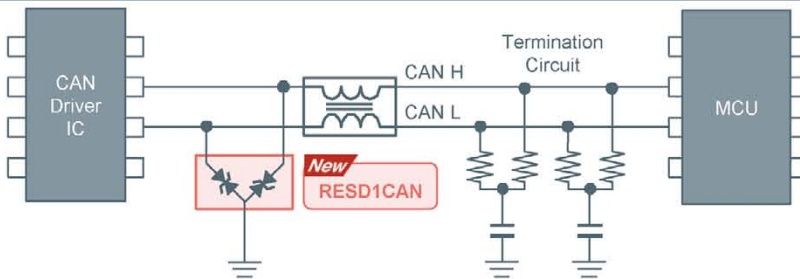
Universal SOT-23 Package Enables Easy Replacement

External Dimensions (Unit: mm)

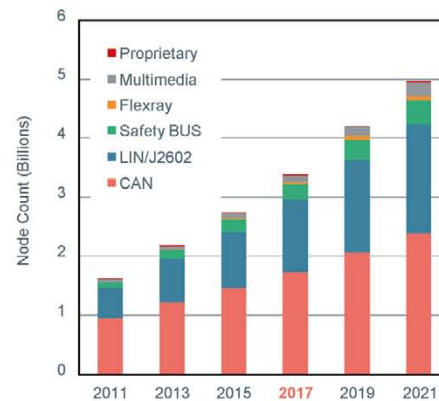


Note: Package type refers to JEDEC notation. () indicates ROHM package.

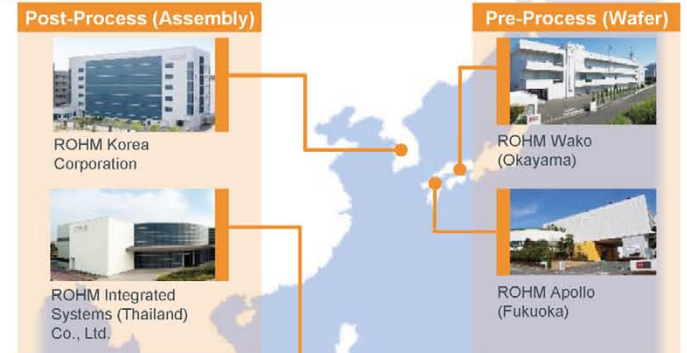
C_t Characteristics Ideal for CAN Communication Provide IC Protection



Trend of Automotive LAN



Pre-/Post-Processes Conducted In-House Ensures Stable Supply



Automotive-grade reliability with excellent traceability

AEC-Q101 Qualified SOT-23 (SSD3) Diode Lineup

Note: Package type denotes JEDEC notation. () Indicates ROHM package.

SOT-23 package diode lineup offered for the US and European markets

TVS Diodes for Automotive CAN Communication Protection						
Part No.	P _D * [mW]	V _{BR} [V]*		I _T [mA]	Peak Pulse Output [W] (tp=8/20μs)	Equivalent Circuit
		Min.	Max.			
New RESD1CAN	225	26.2	32.0	1	350	

*Ta=25°C

TVS Diodes [MMBZ Series]						
Part No.	P _D * [mW]	V _Z [V]*		I _Z [mA]	Peak Pulse Power [W] (tp=10/1000μs)	Equivalent Circuit
		Min.	Max.			
New MMBZ5V6AL	225	5.32	5.88	20	24	
New MMBZ6V2AL		5.89	6.51	1	24	
New MMBZ6V8AL		6.46	7.14	1	24	
New MMBZ9V1AL		8.65	9.56	1	24	
New MMBZ10VAL		9.50	10.50	1	24	
New MMBZ12VAL		11.40	12.60	1	40	
New MMBZ15VAL		14.25	15.75	1	40	
New MMBZ16VAL		15.20	16.80	1	40	
New MMBZ18VAL		17.10	18.90	1	40	
New MMBZ20VAL		19.00	21.00	1	40	
New MMBZ24VAL		22.80	25.20	1	40	
New MMBZ27VAL		25.65	28.35	1	40	
New MMBZ30VAL		28.50	31.50	1	40	
New MMBZ33VAL		31.35	34.65	1	40	
MMBZ27VCL		25.65	28.35	1	40	

*Ta=25°C

TVS Diodes [BZX84C Series]						
Part No.	P _D * [mW]	V _Z [V]*		I _Z [mA]	Equivalent Circuit	250
		Min.	Max.			
New BZX84C2V4L	250	2.20	2.60	5		
New BZX84C2V7L		2.50	2.90	5		
New BZX84C3V0L		2.80	3.20	5		
New BZX84C3V3L		3.10	3.50	5		
New BZX84C3V6L		3.40	3.80	5		
New BZX84C3V9L		3.70	4.10	5		
New BZX84C4V3L		4.00	4.60	5		
New BZX84C4V7L		4.40	5.00	5		
New BZX84C5V1L		4.80	5.40	5		
New BZX84C5V6L		5.20	6.00	5		
New BZX84C6V2L		5.80	6.60	5		
New BZX84C6V8L		6.40	7.20	5		
New BZX84C7V5L		7.00	7.90	5		
New BZX84C8V2L		7.70	8.70	5		
New BZX84C9V1L		8.50	9.60	5		
New BZX84C10VL		9.40	10.60	5		
New BZX84C11VL		10.40	11.60	5		
New BZX84C12VL		11.40	12.70	5		
New BZX84C13VL		12.40	14.10	5		
New BZX84C15VL		13.80	15.60	5		
New BZX84C16VL	15.30	17.10	5			
New BZX84C18VL	16.80	19.10	5			
New BZX84C20VL	18.80	21.20	5			
New BZX84C22VL	20.80	23.30	5			
New BZX84C24VL	22.80	25.60	5			
New BZX84C27VL	25.10	28.90	2			
New BZX84C30VL	28.00	32.00	2			
New BZX84C33VL	31.00	35.00	2			
New BZX84C36VL	34.00	38.00	2			

*Ta=25°C

Schottky Barrier Diodes							
Part No.	V _{RM} *1 [V]	I _F *1 [mA]	V _F [mV]*2		I _R [μA]*2		Equivalent Circuit
			Max.	I _F [mA]	Max.	V _R [V]	
New BAT54HM	30	200	800	100	2	25	
New BAT54SHM	30	200	800	100	2	25	
New BAT54CHM	30	200	800	100	2	25	
New BAT54AHM	30	200	800	100	2	25	
New BAS40HM	40	120	1000	40	1	30	
New BAS40-04HM	40	120	1000	40	1	30	
New BAS40-05HM	40	120	1000	40	1	30	
New BAS40-06HM	40	120	1000	40	1	30	

*1: T_c=25°C *2: T_J=25°C

Switching Diodes								
Part No.	V _{RM} * [V]	V _R * [V]	I _F * [mA]	V _F [V]*		I _R [nA]*		Equivalent Circuit
				Max.	I _F [mA]	Max.	V _R [V]	
New BAV70HM	90	80	215	1.25	150	500	80	
New BAW56HM	100	80	215	1.25	150	100	80	
New BAV99HM	100	80	215	1.25	150	100	80	
New BAS16HM	100	80	215	1.25	150	100	80	
New BAS21HM	250	200	200	1.25	200	100	200	
New BAV170HM	90	80	215	1.25	150	5	75	
New BAW166HM	100	80	215	1.25	150	5	75	
New BAV199HM	100	80	215	1.25	150	5	75	

*Ta=25°C

The content specified in this document is correct as of June 1st, 2017.

The content specified herein is for the purpose of introducing ROHM's products (hereinafter "Products"). If you wish to use any such Product, please be sure to refer to the specifications, which can be obtained from ROHM upon request. Great care was taken in ensuring the accuracy of the information specified in this document. However, should you incur any damage arising from any inaccuracy or misprint of such information, ROHM shall bear no responsibility for such damage. The technical information specified herein is intended only to show the typical functions of and examples of application circuits for the Products. ROHM does not grant you, explicitly or implicitly, any license to use or exercise intellectual property or other rights held by ROHM and other parties. ROHM shall bear no responsibility whatsoever for any dispute arising from the use of such technical information. If you intend to export or ship overseas any Product or technology specified herein that may be controlled under the Foreign Exchange and the Foreign Trade Law, you will be required to obtain a license or permit under the Law.



ROHM Co., Ltd.

21 Sain Mizosaki-cho, Ukyo-ku, Kyoto 615-8585 Japan

www.rohm.com