

Featured Products



Supports a wide range of applications from home appliances to automotive and industrial equipment

Compact High Reliability PMDE Package Diodes

RBLQ (SBD) / RBR (SBD) / RBxx8 (SBD) / RFN (FRD) / VS (TVS) series

- Compact package contributes to board miniaturization**

Achieves the same electrical characteristics as the PMDU package while reducing mounting area by approx. 42%

- 1.4x the mounting strength improves reliability**

Reduces the risk of cracking during mounting

- Lineup of 5 models supports a variety of applications**

Medium Power Schottky Barrier Diodes:

High efficiency Low I_R type (RBLQ series) / Low V_F type (RBR series) / Ultra-low I_R type (RBxx8 series)

Medium Power Fast Recovery Diodes: RFN series

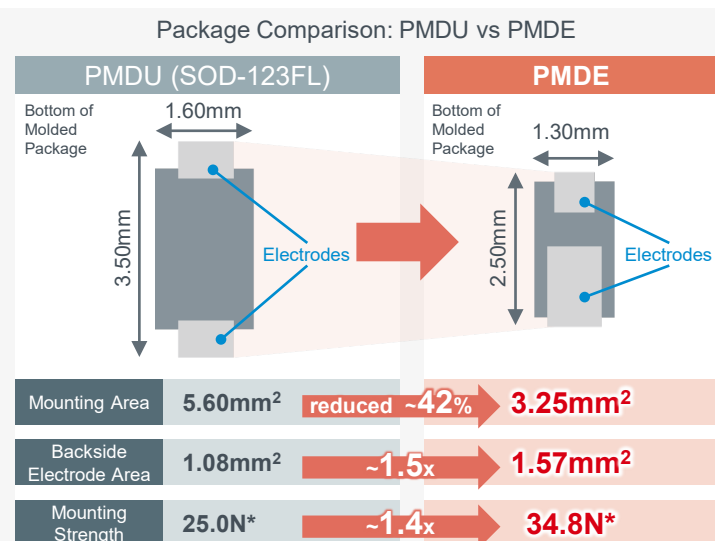
TVS: VS series



PMDE
2513 [1005]

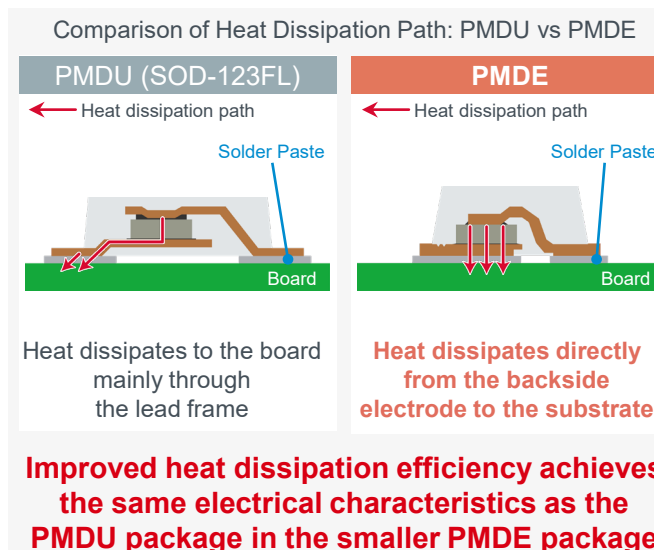
unit: mm [inch]

Package Comparison

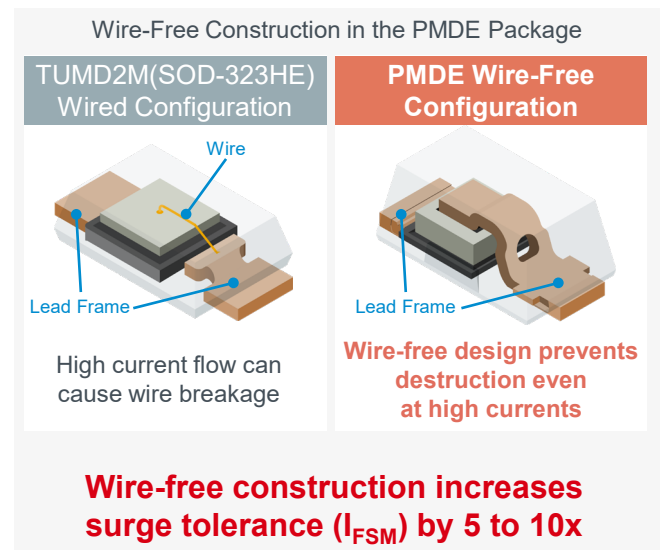


*N: Newtons (average value when mounting on recommended land pattern)

Improved Heat Dissipation Efficiency



Excellent Anti-Surge Current Performance



PMDE Package Diode Lineup

Medium Power Schottky Barrier Diodes

Part No.	Absolute Max Ratings (Tc=25°C)					Electrical Characteristics (Tj=25°C)					Equivalent Circuit Diagram	Automotive Grade AEC-Q101*	Primary Applications	Application Examples	
	V _{RM} (V)	V _R (V)	I _O (A)	I _{FSM} (A)	T _J (°C) Max	V _F (V) Max	I _F (A)	I _R (μA) Max	V _R (V)						
High Efficiency Low I_R Type (RBLQ series) Web Page															
☆ RBLQ1VWM10	100	100	1	T.B.D	175	0.70	1	6	100		YES	<ul style="list-style-type: none"> Rectification Switching circuits 	<ul style="list-style-type: none"> FA power supplies LED headlamps Car accessories Infotainment etc. 		
New RBLQ2VWM10	100	100	2	30		0.77	2	10	100		YES				
Low V_F Type (RBR series) Web Page															
RBR1VWM30A	30	30	1	30	150	0.48	1	50	30		YES	<ul style="list-style-type: none"> Rectification Switching circuits 	<ul style="list-style-type: none"> Onboard chargers LED headlamps Car accessories Laptop PCs etc. 		
RBR2VWM30A	30	30	2	30		0.53	2	50	30		YES				
RBR1VWM40A	40	40	1	20		0.52	1	50	40		YES				
RBR2VWM40A	40	40	2	20		0.62	2	50	40		YES				
RBR1VWM60A	60	60	1	20		0.53	1	75	60		YES				
RBR2VWM60A	60	60	2	20		0.65	2	75	60		YES				
High-Low I_R Type (RBxx8 series) Web Page															
New RB168VWM-30	30	30	1	30	175	0.69	1	0.6	30		YES	<ul style="list-style-type: none"> Rectification Switching circuits 	<ul style="list-style-type: none"> White goods Laptop PCs FA power supplies Car infotainment Fan motors etc. 		
New RB068VWM-30	30	30	2	30		0.75	2	0.6	30		YES				
New RB168VWM-40	40	40	1	30		0.69	1	0.5	40		YES				
New RB068VWM-40	40	40	2	30		0.79	2	0.5	40		YES				
New RB168VWM-60	60	60	1	30		0.76	1	0.5	60		YES				
New RB068VWM-60	60	60	2	30		0.84	2	0.5	60		YES				
New RB168VWM100	100	100	1	25		0.84	1	0.3	100		YES				
New RB068VWM100	100	100	2	25		0.94	2	0.3	100		YES				
New RB168VWM150	150	150	1	25		0.89	1	1	150		YES				
New RB068VWM150	150	150	2	25		0.96	2	1	150		YES				

Medium Power Fast Recovery Diodes

Part No.	Absolute Max Ratings (Tc=25°C or Tl=25°C)					Electrical Characteristics (Tj=25°C)						Equivalent Circuit Diagram	Automotive Grade AEC-Q101*	Primary Applications	Application Examples	
	V _{RM} (V)	V _R (V)	I _O (A)	I _{FSM} (A)	T _J (°C) Max	V _F (V) Max	I _F (A)	I _R (μA) Max	V _R (V)	trr (ns) Max	I _F (A)					I _R (A)
RFN series Web Page																
New RFN1VWM2S	200	200	1	10	175	0.93	1	1	200	25	0.5	1		YES	<ul style="list-style-type: none"> Switching circuits 	<ul style="list-style-type: none"> Engine ECUs Transmission ECUs TVs ADAS Acs etc.
New RFN2VWM2S	200	200	2	10		0.99	2	1	200	25	0.5	1		YES		

TVS (Surge Protection Diodes)

Part No.	Absolute Max Ratings (Ta=25°C)				Equivalent Circuit Diagram	Automotive Grade AEC-Q101*	Primary Applications	Application Examples
	P _D (mW)	Peak Pulse Power P _{PP} (W) (tp=10/1,000μs)	V _{RWM} RANK (V)	T _J Max (°C)				
VS series Web Page								
New VSxxVUA1VWM	1,000	200	5 to 40	150		YES	<ul style="list-style-type: none"> Protection 	<ul style="list-style-type: none"> Body / engine ECUs LED headlamps Industrial inverters etc.
New VSxxVLNVWM	1,000	200	40 to 130	150		YES		

*Limited to automotive-grade products

☆Under Development



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