



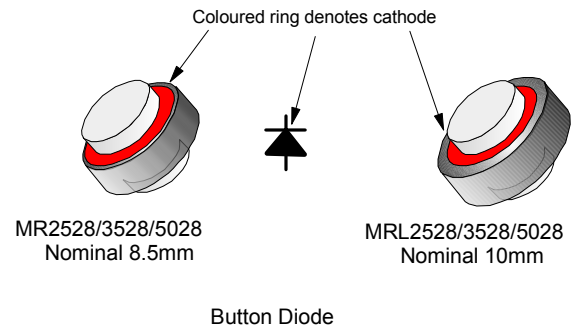
**Transys  
Electronics  
LIMITED**

**MR2528/MRL2528 - 25 Amp  
MR3528/MRL3528 - 35 Amp  
MR5028/MRL5028 - 50 Amp**  
Rectifier/Zener Automotive Alternator Diode

## Data Sheet

### Features

- \* Epi Layer for tight control of parameters
- \* Silicon oxide passivation for superior junction protection
- \* Visual to Mil Std 750C
- \* 100 % Tested
- \* Low Reverse Leakage
- \* Low Forward Voltage
- \* Load Dump Capability



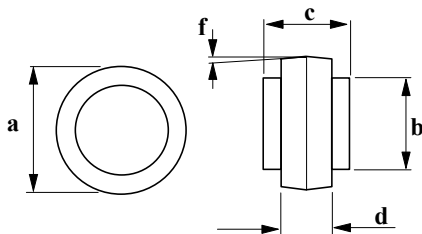
Characteristics at 25° C <small>(Unless stated otherwise)</small>	Maximum Forward Voltage	Reverse Breakdown Voltage	Maximum Reverse Leakage	Maximum Clamping Voltage	Maximum Forward Current @ Ta = 150° C	Non Repetitive Peak Forward Surge Current
Type Number	V <sub>F</sub> Volt	V <sub>BR</sub> Volt	I <sub>R</sub> nA	V <sub>CL</sub> Volt	I <sub>F (AVG)</sub> Amp	I <sub>FSM</sub> Amp
MR2528 MRL2528	1.05 @ 75A t = 300μ S < 2% Duty Cycle	24 - 32 @ 100mA	200 @ VR =20 Volt	< 34 @ IR = 2.8 x IF avg 80 μS < 2% duty Cycle	25	400 @ 8.3mS single half wave. (Jedec Method)
MR3528 MRL3528	1.05 @ 100A t = 300μ S < 2% Duty Cycle	24 - 32 @ 100mA	200 @ VR =20 Volt	< 34 @ IR = 2.8 x IF avg 80 μS < 2% duty Cycle	35	600 @ 8.3mS single half wave. (Jedec Method)
MR5028 MRL5028	1.05 @ 100A t = 300μ S < 2% Duty Cycle	24 - 32 @ 100mA	200 @ VR =20 Volt	< 34 @ IR = 2.8 x IF avg 80 μS < 2% duty Cycle	50	800 @ 8.3mS single half wave. (Jedec Method)

Power cycle requirement.

1. 10,000 cycles
2. I<sub>F</sub> = 200% Rated current
3. Temperature rise 150° C
4. Excursion rate 37.8° C /Minute, +/- 5° C /Minute

Maximum Operating Temperature Range -65 to + 200° C  
Maximum Storage Temperature Range -65 to + 200° C

## Mechanical Dimensions



Dim	Inches		Millimetres	
	Min	Max	Min	Max
a	0.326	0.350	8.30	8.90
b	0.216	0.224	5.50	5.701
c	0.236	0.251	6.00	6.40
d	0.165	0.185	4.20	4.70
f	5° Nominal		5° Nominal	

Dim	Inches		Millimetres	
	Min	Max	Min	Max
a	0.370	0.409	9.70	10.40
b	0.216	0.224	5.50	5.701
c	0.236	0.251	6.00	6.40
d	0.165	0.185	4.20	4.70
f	5° Nominal		5° Nominal	

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Transys Electronics LTD  
Birmingham UK.  
Email: [sales@transyselectronics.com](mailto:sales@transyselectronics.com)  
Website: [www.transyselectronics.com](http://www.transyselectronics.com)  
Tel: 44 (0) 121 776 6321  
Fax 44 (0) 121 776 6997

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