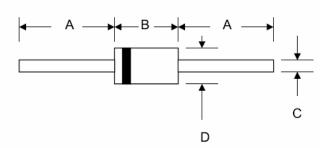


Technical Data Data Sheet N0542, Rev.Features

Green Products

- Diffused Junction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- This is a Pb Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request



Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per
- MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.181 grams (approx.)
- Mounting Position: Any
- Marking: Part Name, SSG and Date Code

R-1									
Dim	Min	Max	Min	Max					
Α	20.0	_	0.787	_					
В	2.00	3.50	0.079	0.138					
С	0.53	0.64	0.021	0.025					
D	2.20	2.60	0.087	0.102					
	In mm		In inch						

Marking Diagram

Where XXXXX is YYWWL



1A1 = Part Name SSG = SSG YY = Year WW = Week L = Lot Number

Cautions: Molding resin

Epoxy resin UL:94V-0

ORDERING INFORMATION

Device	Package	Shipping
1A1-1A7	R-1 (Pb-Free)	5000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

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Technical Data Data Sheet N0542, Rev.- **Green Products**

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	1A1	1A2	1A3	1A4	1 A 5	1A6	1A7	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	٧
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	700	٧
Average Rectified Output Current (Note 1) @T _A = 75°C	lo	1.0					Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30					Α		
Forward Voltage @I _F = 1.0A	VFM	1.0				V			
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	5.0 50				μΑ			
Typical Junction Capacitance (Note 2)	Cj	15					pF		
Typical Thermal Resistance Junction to Ambient (Note 1)	R_{θ} JA	50				K/W			
Operating Temperature Range	Tj	-65 to +125				°C			
Storage Temperature Range	Тѕтс	-65 to +150				°C			

*Glass passivated forms are available upon request

Note: 1. Leads maintained at ambient temperature at a distance of 9.5mm from the case

2. Measured at 1.0 MHz and Applied Reverse Voltage of 4.0V D.C.

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Technical Data Green Products

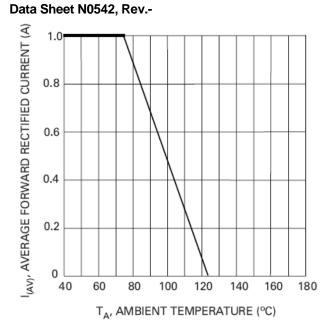


Fig. 1 Forward Current Derating Curve

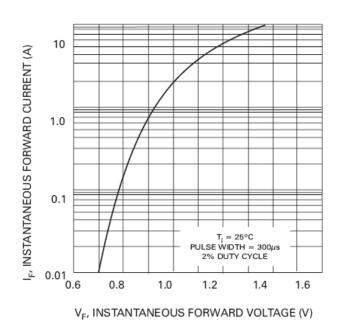


Fig. 2 Typical Forward Characteristics

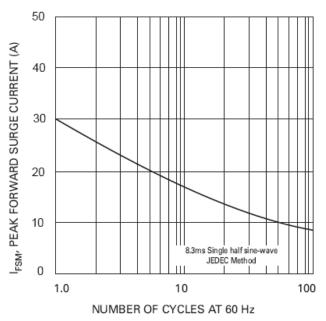


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

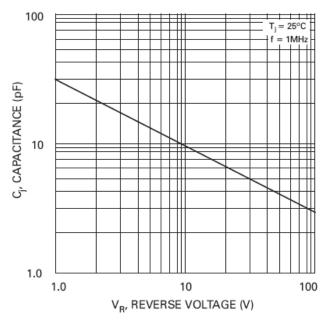


Fig. 4 Typical Junction Capacitance

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