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by MR2535L/D

Advance Information **Overvoltage Transient Suppressors**

... designed for applications requiring a low voltage rectifier with reverse avalanche characteristics for use as reverse power transient suppressors. Developed to suppress transients in the automotive system, these devices operate in the forward mode as standard rectifiers or reverse mode as power avalanche rectifier and will protect electronic equipment from overvoltage conditions.

- Avalanche Voltage 24 to 32 Volts
- High Power Capability •
- Economical •
- Increased Capacity by Parallel Operation
- **Mechanical Characteristics**
- Case: Epoxy, Molded
- Weight: 2.5 grams (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are **Readily Solderable**
- Lead Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Polarity: cathode polarity band
- MR2535L shipped 1000 units per plastic bag. Available Tape and Reeled, 800 units per reel by adding a "RL" suffix to the part number.
- MR2535S shipped pocket tape and reeled, 500 per 13" reel
- Marking: MR2535L, MR2535S



MAXIMUM RATINGS

Rating	Symbol	Value	Unit	
DC Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	Volts	
Repetitive Peak Reverse Surge Current (Time Constant = 10 ms, Duty Cycle ≤ 1%, T _C = 25°C) (See Figure 1)	IRSM	I _{RSM} 110		
Average Rectified Forward Current (Single Phase, Resistive Load, 60 Hz, T _C = 150°C)	۱ ₀	35	Amps	
Non–Repetitive Peak Surge Current Surge Supplied at Rated Load Conditions Halfwave, Single Phase	IFSM	600	Amps	
Operating and Storage Junction Temperature Range	TJ, Tstg	-65 to +175	°C	

THERMAL CHARACTERISTICS

Characteristic	Lead Length	Symbol	Мах	Unit
Thermal Resistance, Junction to Lead @ Both Leads to Heat Sink, Equal Length	1/4″ 3/8″ 1/2″	R _{θJL}	7.5 10 13	°C/W
Thermal Resistance Junction to Case		R _{θJC}	0.8*	°C/W

*Typical

This document contains information on a new product. Specifications and information herein are subject to change without notice.



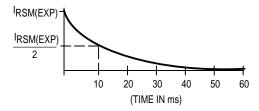


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ELECTRICAL CHARACTERISTICS

Characteristic	Symbol	Min	Max	Unit
Instantaneous Forward Voltage (1) ($i_F = 100 \text{ Amps}, T_C = 25^{\circ}C$)	۷F	—	1.1	Volts
Reverse Current ($V_R = 20 \text{ Vdc}, T_C = 25^{\circ}\text{C}$)	۱ _R	—	200	nAdc
Breakdown Voltage (1) ($I_R = 100 \text{ mAdc}, T_C = 25^{\circ}C$)	V _(BR)	24	32	Volts
Breakdown Voltage (1) (I _R = 90 Amp, T _C = 150°C, PW = 80 μ s)	V _(BR)	—	40	Volts
Breakdown Voltage Temperature Coefficient	V(BR)TC	_	0.096*	%/°C
Forward Voltage Temperature Coefficient @ I _F = 10 mA	VFTC	—	2*	mV/°C

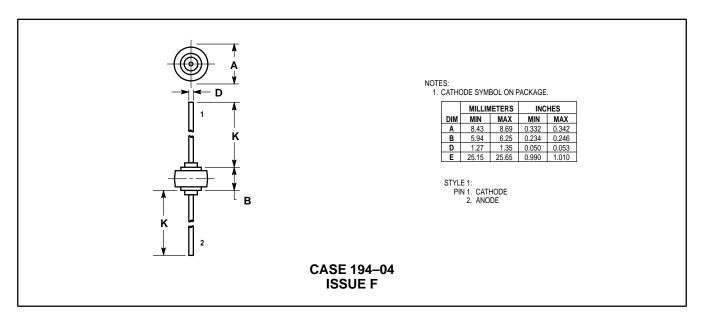
(1) Pulse Test: Pulse Width \leq 300 µs, Duty Cycle \leq 2%. *Typical

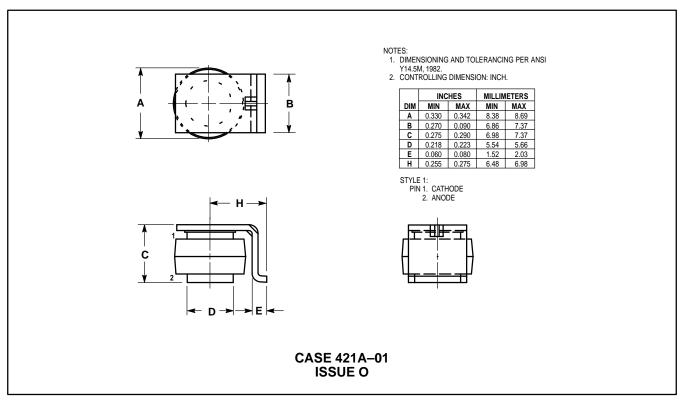




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PACKAGE DIMENSIONS





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P.O. Box 5405, Denver, Colorado 80217. 303-675-2140 or 1-800-441-2447

Mfax™: RMFAX0@email.sps.mot.com - TOUCHTONE 602-244-6609

INTERNET: http://motorola.com/sps

- US & Canada ONLY 1-800-774-1848



ASIA/PACIFIC: Motorola Semiconductors H.K. Ltd.; 8B Tai Ping Industrial Park, 51 Ting Kok Road, Tai Po, N.T., Hong Kong. 852-26629298

JAPAN: Nippon Motorola Ltd.: SPD, Strategic Planning Office, 4-32-1,

Nishi-Gotanda, Shinagawa-ku, Tokyo 141, Japan. 81-3-5487-8488