

MR2540L

V_R: 20 Volts lo: 6 Amperes

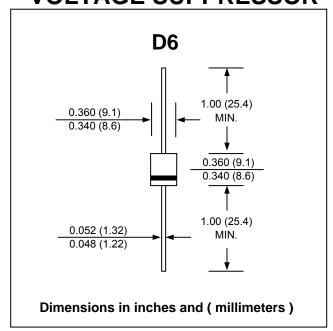
FEATURES:

- * Breakdown Voltage 24 to 32 Volts
- * High Power capability
- * Increased Capacity by Parallel Operation
- * Pb / RoHS Free

MECHANICAL DATA:

- * Case : molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any* Weight : 2.049 grams

AUTOMOTIVE TRANSIENT VOLTAGE SUPPRESSOR



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

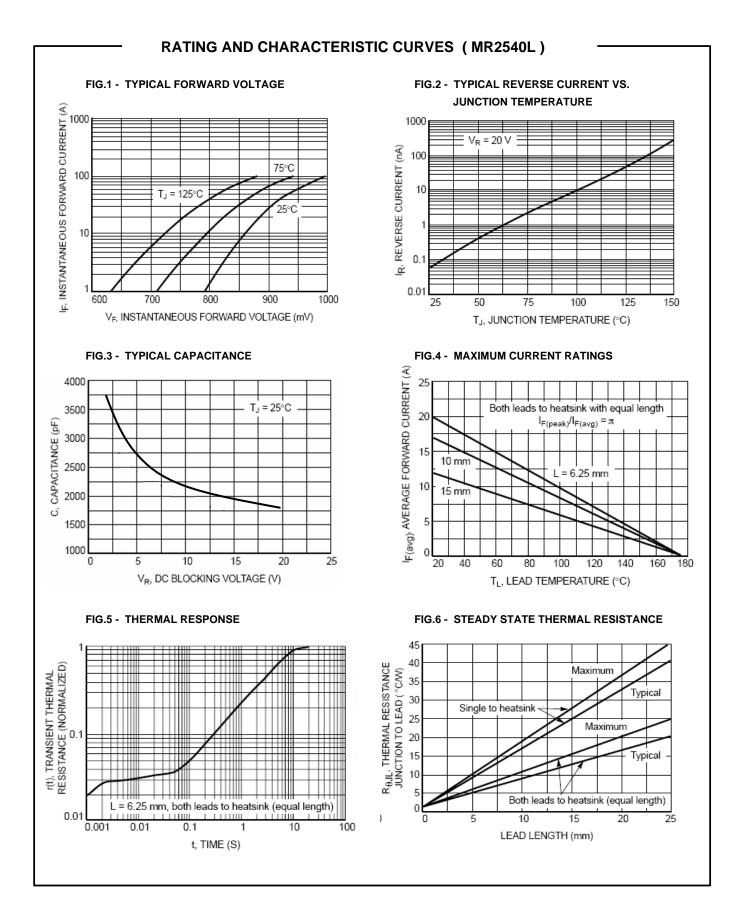
Rating at 25 °C ambient temperature unless otherwise specified.

RATING	SYMBOL	VALUE	UNIT
Maximum DC Peak Repetitive Reverse Voltage	VRRM	20	V
Maximum Working Peak Reverse Voltage	VRWM	20	V
Maximum DC Blocking Voltage	VR	20	V
Maximum Breakdown Voltage ($I_R = 100$ mA, $Tc = 25$ °C) ⁽¹⁾	V _{BR(max)}	32	V
Minimum Breakdown Voltage ($I_R = 100 \text{ mA}$, $Tc = 25 ^{\circ}\text{C}$) (1)	VBR(min)	24	V
Maximum Average Rectified Forward Current	I F(AV)	6	А
(Single Phase, Resistive Load, 60 Hz, Tc = 150 °C)		O	
Maximum Repetitive Peak Reverse Surge Current	Irsm	85	А
(Time Constant = 10 ms, Duty Cycle ≤ 1%, Tc = 25 °C)		00	
Maximum Non-Repetitive Peak Surge Current	IFSM	800	А
Surge Supplied at Rated Load Conditions, Halfwave, Single Phase		000	
Maximum Instantaneous Forward Voltage (I _F = 100 A, Tc = 25 °C) (1)	VF	1.1	V
Maximum Reverse Current (V _R = 20 V, Tc = 25 °C)	lR	200	nA
Typical Breakdown Voltage Temperature Coefficient	$V_{(BR)TC}$	0.096	%/°C
Typical Forward Voltage Temperature Coefficient @ I _F = 10 mA	V_{FTC}	2.0	mV/°C
Typical Thermal Resistance Junction to Case	R _{eJC}	0.8	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	- 65 to + 175	°C

Note : (1) Pulse Test : Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$.

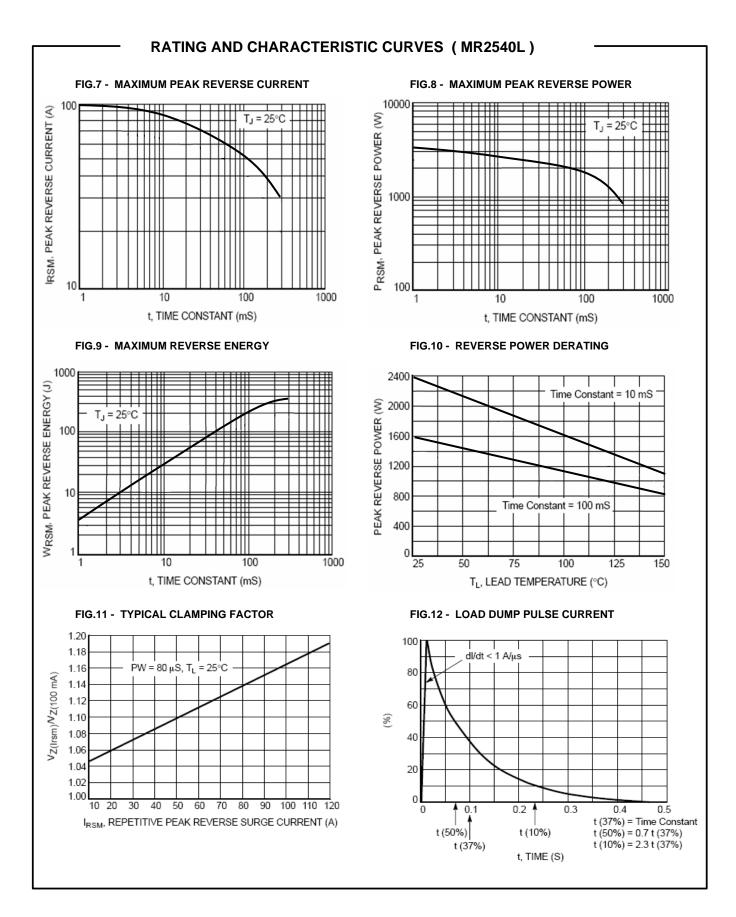
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