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MR2520L

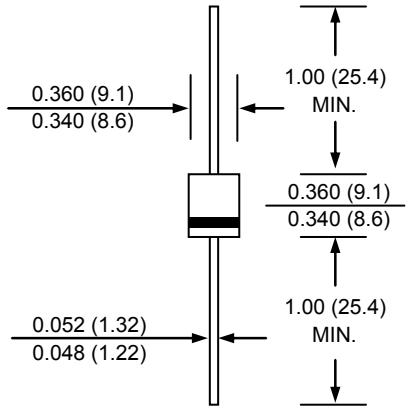
OVERVOLTAGE TRANSIENT SUPPRESSOR

V_{BR} : 24 - 32 Volts
Io : 6 Amperes

FEATURES :
* High Power capability
* Economical
* 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

D6



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (Tj = 25 °C unless otherwise noted.)

RATING	SYMBOL	VALUE	UNIT
Maximum DC Peak Repetitive Reverse Voltage	V_{RRM}	23	V
Maximum Working Peak Reverse Voltage	V_{RWM}	23	V
Maximum DC Blocking Voltage	V_R	23	V
Maximum Breakdown Voltage (Note 1) (I_R = 100 mA, Tc = 25 °C)	$V_{BR(max)}$	32	V
Minimum Breakdown Voltage (Note 1) (I_R = 100 mA, Tc = 25 °C)	$V_{BR(min)}$	24	V
Maximum Average Rectified Forward Current (Single Phase, Resistive Load, 60 Hz, Tc = 125 °C)	$I_{F(AV)}$	6	A
Maximum Repetitive Peak Reverse Surge Current (Note 2)	I_{RSM}	58	A
Peak Reverse Power (Note 2)	P_{RSM}	2500	W
Maximum Non-Repetitive Peak Surge Current Surge Supplied at Rated Load Conditions, Halfwave, Single Phase	I_{FSM}	400	A
Maximum Instantaneous Forward Voltage (I_F = 100 A, Tc = 25 °C) (Note 1) (I_F = 6 A, Tc = 25 °C)	V_F	1.25 0.90	V
Maximum Reverse Current (V_R = 20 V, Tc = 25 °C)	I_R	300	nA
Dynamic Resistance (I_R = 100 mA, T_J = 25°C, f = 1.0 kHz)	R_Z	5	Ω
Dynamic Resistance (I_R = 40 mA, T_J = 25°C)	R_Z	0.15	Ω
Typical Breakdown Voltage Temperature Coefficient	$V_{(BR)TC}$	0.09	%/°C
Thermal Resistance Junction to Case	$R_{\Theta JC}$	1	°C/W
Thermal Resistance Junction to Lead (Lead Length = 10 mm)	$R_{\Theta JL}$	10	°C/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	- 65 to + 175	°C

Notes :

(1) Pulse Test : Pulse Width ≤ 300μs, Duty Cycle ≤ 2%.

(2) Time Constant = 10 ms, Duty Cycle≤ 1%, Tc = 25 °C