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D1NL20U

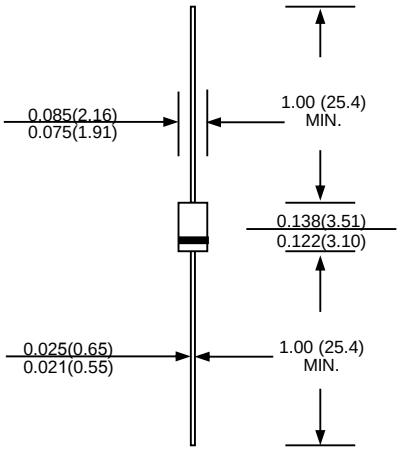
SUPER FAST RECTIFIER DIODE

PRV : 200 Volts
Io : 1.0 Ampere

FEATURES :
* Glass passivated junction chip
* High current capability
* High surge current capability
* High reliability
* Low reverse current
* Low forward voltage drop
* Super fast recovery time
* Pb / RoHS Free

MECHANICAL DATA :
* Case : M1A Molded plastic
* Epoxy : UL94V-0 rate flame retardant
* Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
* Polarity : Color band denotes cathode end
* Mounting position : Any
* Weight : 0.20 gram (approximately)

M1A



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (If not specified Tl=25 °C)

RATING	SYMBOL	VALUE	UNIT
Maximum Reverse Voltage	V_{RM}	200	V
Maximum Average Forward Current 50Hz sine wave, R-load, Ta=25℃	$I_{F(AV)}$	1.0	A
Maximum Peak Forward Surge Current, 50Hz sine wave, Non-repetitive 1 cycle peak value, Tj=25℃	I_{FSM}	25	A
Maximum Peak Forward Voltage at I_F = 1.0 A.	V_F	0.98	V
Maximum DC Reverse Current at $V_R = V_{RM}$	I_{RM}	10	μA
Maximum Reverse Recovery Time (Note 1)	Trr	35	ns
Thermal Resistance, Junction to Lead	$R_{\Theta JL}$	10	°C/W
Thermal Resistance, Junction to Ambient	$R_{\Theta JA}$	113	°C/W
Operating Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	- 55 to + 150	°C

Note : (1) Reverse Recovery Test Conditions : I_F = 0.5 A, I_R = 1.0 A

RATING AND CHARACTERISTIC CURVES (D1NL20U)

FIG.1 - DERATING CURVE

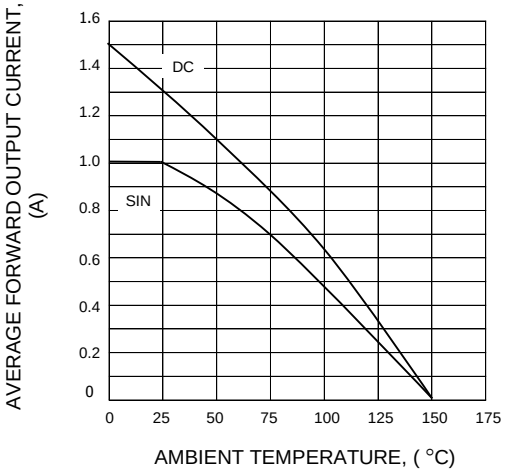


FIG.2 - PEAK SURGE FORWARD CAPABILITY

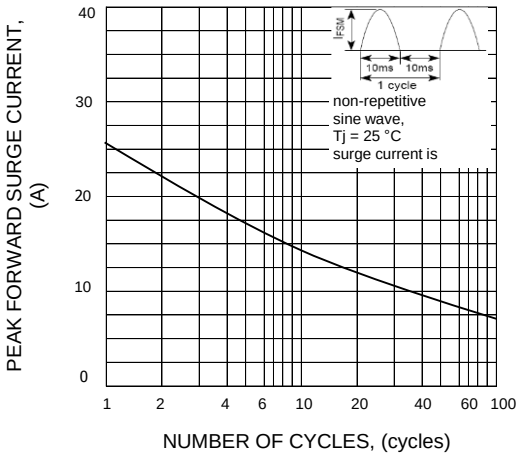


FIG.3 - FORWARD CHARACTERISTICS

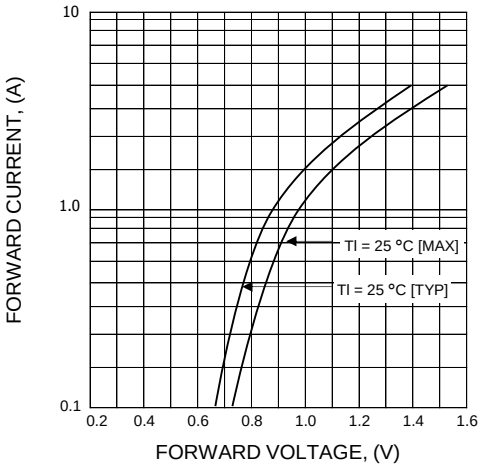


FIG.4 - JNCTION CAPACITANCE