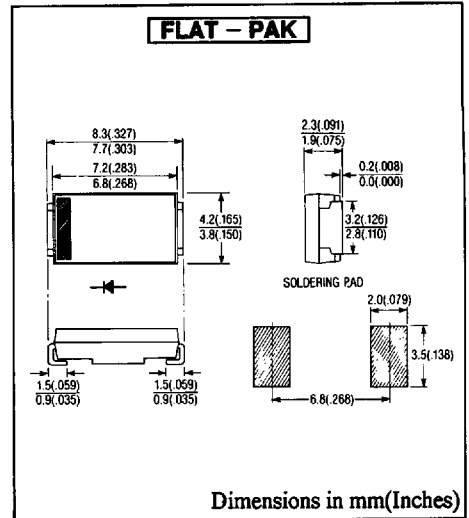


FEATURES

- Surface Mounting Device
- Extremely Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capability
- 20 Volts thru 100 Volts Types Available
- Packaged in 16mm Tape and Real
- Not Rolling Durintg Assembly



MAXIMUM RATINGS

Voltage Rating	TYPE	◆ NSQ03A02L			Unit
	Symbol				
Repetitive Peak Reverse Voltage	V_{RRM}	20			V
Non - Repetitive Peak Reverse Voltage	V_{RSM}	25			
Electrical Rating	Symbol	Condition		Rating	Unit
Average Rectified Output Current (resistive load)	I_o	180° rectangular wave conduction	$T_{\ell}^* = 98^{\circ}C$	3.3	A
		180° sinusoidal wave conduction	$T_{\ell}^* = 102^{\circ}C$	3.0	
Peak One - cycle Forward Surge Current	I_{FSM}	50Hz half sine wave, non - repetitive		120	A
Operating Junction Temperature Range	T_{jw}			- 40 to 125	°C
Storage Temperatue Range	T_{stg}			- 40 to 125	°C

ELECTRICAL & THERMAL CHARACTERISTICS

Characteristics	Symbol	Test Condition	Max.	Unit
Peak Forward Voltage	V_{FM}	$I_{FM} = 3A, T_j = 25^{\circ}C$	0.45	V
Peak Reverse Current	I_{RM}	$V_{RM} = V_{RRM}, T_j = 25^{\circ}C$	3.0	mA
Thermal Resisance	$R_{th(j-\ell)}$	Junction to Lead	13	°C/W

* T_{ℓ} =Lead Temperature
 ◆ For spare parts only

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FIG. 1-FORWARD VOLTAGE VS. FORWARD CURRENT

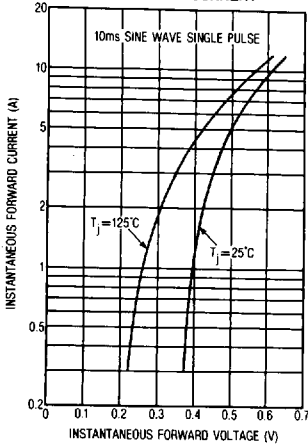


FIG. 2-AVERAGE FORWARD POWER DISSIPATION

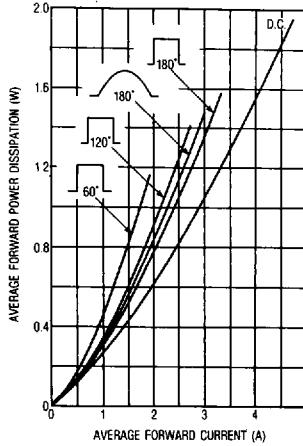


FIG. 3-PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

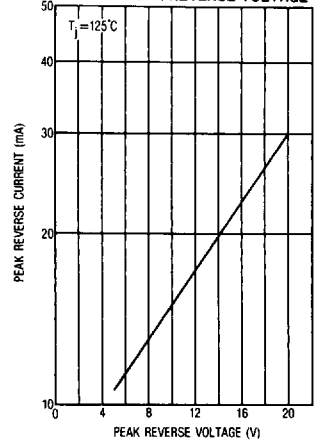


FIG. 4-AVERAGE REVERSE POWER DISSIPATION

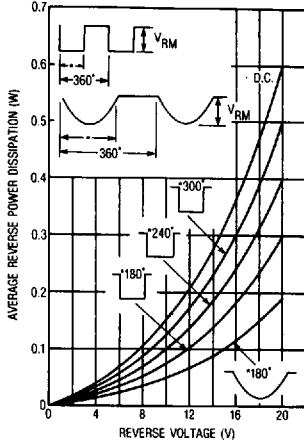


FIG. 5-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

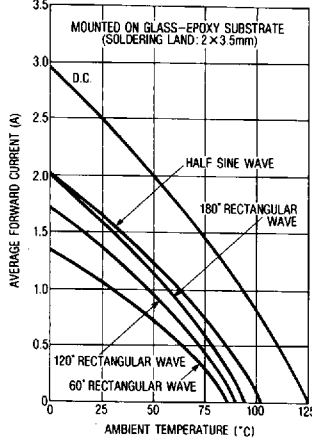


FIG. 6-AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

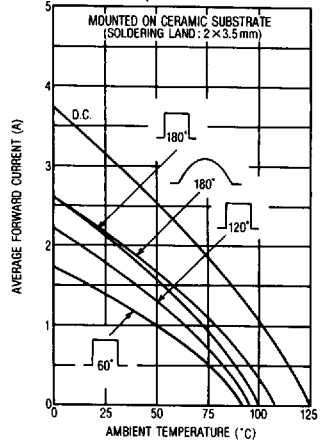


FIG. 7-AVERAGE FORWARD CURRENT VS. CASE TEMPERATURE

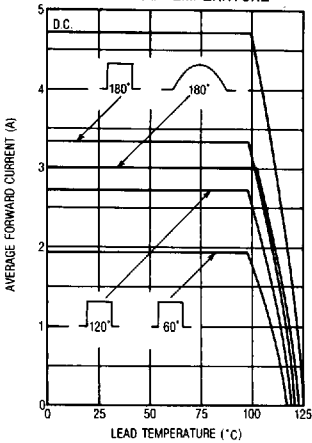


FIG. 8-SURGE CURRENT RATINGS

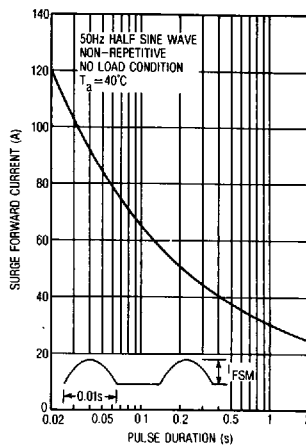


FIG. 9-JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

