

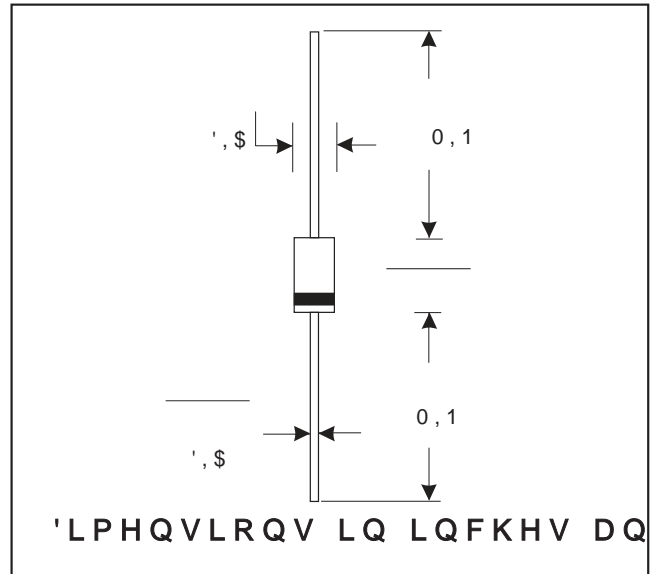
DO-27 3 / \$ 6 7 6 & / , & 2 \$ (& 7 ,) , (5 6

FEATURES

"High surge current capability
 "Plastic package has Underwriters Laboratory Flammability Classification 94V-O Utilizing Flame Retardant Epoxy Molding
 "High current operation 3.0 ampera at TL=95
 "Exceeds environme ntal standards of MIL-S 19500/228
 "For use in low voltage,high frequency inverters free wheeling, and polarity protection applications

MECHANICAL DATA

"Case:DO-27 molded plastic body
 "Terminals:Lead solderable per MIL-STD-750,method 2026
 "Polarity:Color band denotes cathode end
 "Mounting Position:Any



0 \$; , 0 8 0 5 \$ 7 , 1 * 6 \$ 1 ' & + \$ 5 \$ & 7 (5 , 6 7 , & 6

f & \$ P E L H G W S H U D X V Q O R H W K H U Z R L W H G

TYPE NUMBER		SYMBOL	1N5820	1N5821	1N5822	UNITS
Maximum recurrent peak reverse voltage		V_{RRM}	20	30	40	V
Maximum RMS voltage		V_{RMS}	14	21	28	V
Maximum DC blocking voltage		V_{DC}	20	30	40	V
Maximum Average Forward rectified Current		$I_{F(AV)}$	3.0			A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDECmethod)		I_{FSM}	80.0			A
Maximum Instantaneous Forward Voltage at 3.0A		V_F	0.5			V
Maximum reverse current at rated DC blocking voltage	@ $T_A=25$	I_R	0.5			mA
	@ $T_A=100$		50.0			
Typical Junction Capacitance (Note1)		C_J	250			pF
Typical ThermalResistance(Note2)		$R_{@JA}$	20			
Storage Temperature		T_{STG}	- 55 ----+ 150			
Operation Junction Temperature		T_j	- 55 ---- + 125			

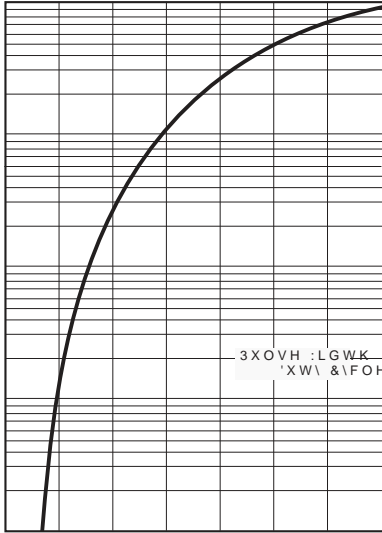
1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2.Thermal Resistance from Junction to Ambient0.5"(12.7mm) lead length.

5 \$ 7 , 1 * 6 \$ 1 ' & + \$ 5 \$ & 7 (5 , 6 7 , & & 8 5 9 (6

) , * 7 < 3 , & \$ /) 2 5 : \$ 5 '
& + \$ 5 \$ & 7 (5 , 6 7 , & 6

, 1 6 7 \$ 1 7 \$ 1 (2 8 6) 2 5 : \$ 5 ' & 8 5 5 (1 7 \$



3 X O V H : L G W K . X V
' X W \ & \ F O H f 9 8 6 p + @ 0 C e ' ' 7 ' y 8 6 P @ ' 0 + "

) 2 5 : \$ 5 ' 9 2 / 7 \$ * (9