

1N4148

FEATURES

- Silicon Epitaxial Planer Diode
- Fast Switching speed
- General purpose switching application
- Also available in the SOD-123 package as the 1N4148W, and the Quadro MELF as the LS4148, and the Mini-MELF as the LL4148



DO-35



MECHANICAL DATA

Case	DO-35 Glass case
Terminals	Plated axial leads, solderable per MIL-STD-202E, Method 208C
Polarity	Color band denotes cathode end
Mounting position	Any
Weight	0.0045 Ounce, 0.13 gram, approx

MAXIMUM RATINGS ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

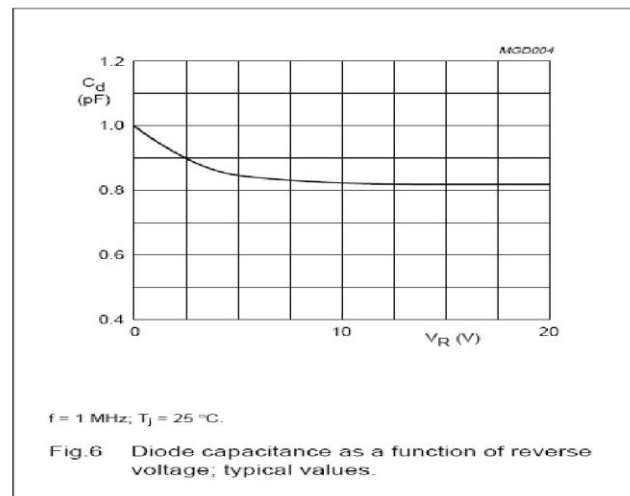
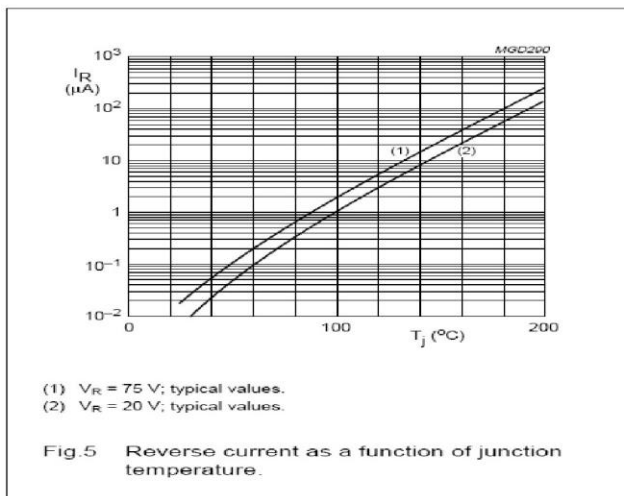
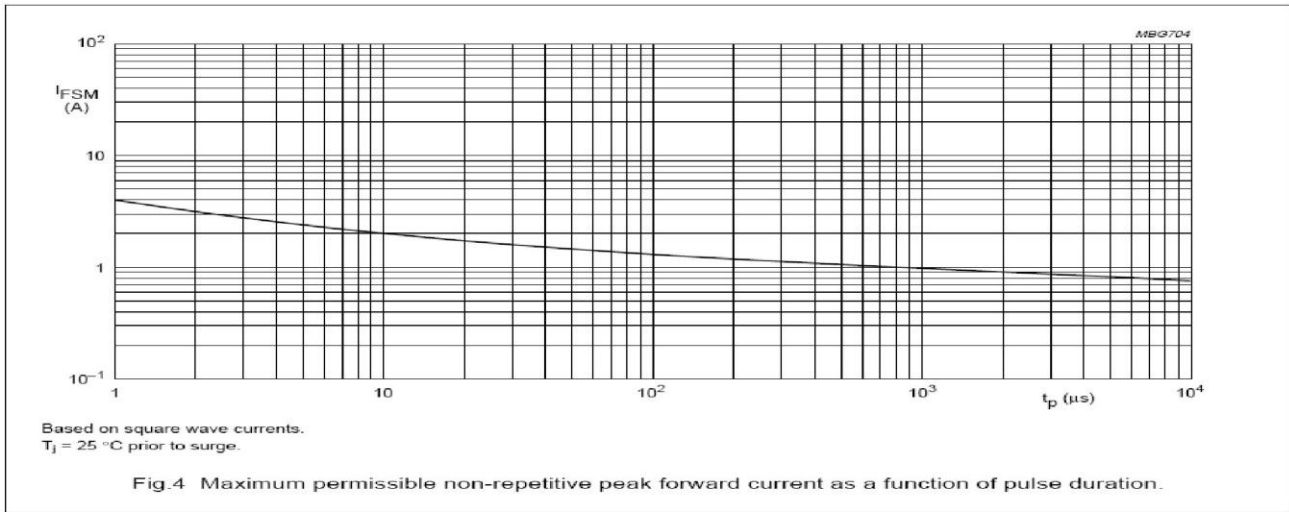
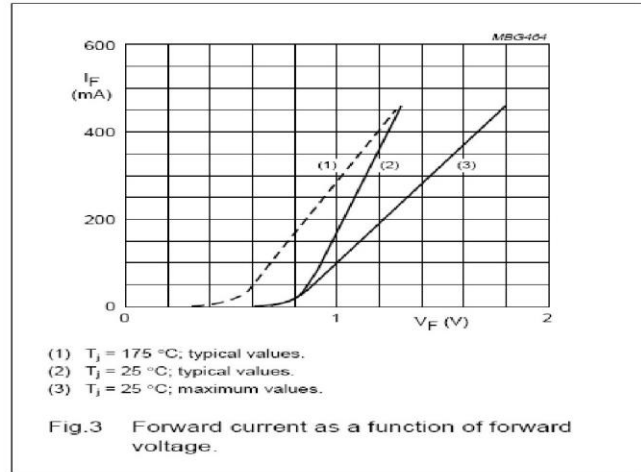
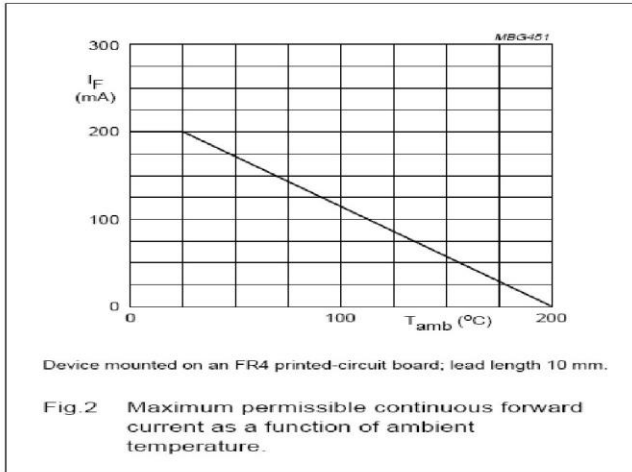
Parameter	Conditions	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage		V_{RRM}	100	V
Max Repetitive Peak Reverse Voltage		V_{RMS}	75	V
Forward Continuous Current		I_{FM}	300	mA
Max Reverse Recovery Time	$I_F=10mA, I_R=10mA, I_{RR}=1mA, R_L=100\Omega$	T_{rr}	4	ns
Non-Repetitive Peak Forward Surge Current	$T=1.0\mu S, T=1.0S$	I_{FSM}	4	Amps
Power dissipation (Note1)		P_{TOT}	500	mW
Operating and Storage Temperature		T_J, T_{STG}	-65 to +175	$^{\circ}C$

ELECTRICAL CHARACTERISTICS ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

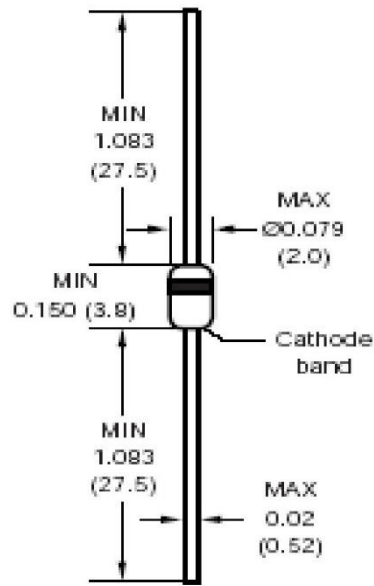
Parameter	Conditions	Symbol	Value	Unit
Max Instantaneous Forward Voltage	10mA	V_F	1.0	V
Max DC Reverse Current at Rated DC Blocking Voltage	$V_R=75V$	I_R	5.0	mA
	$V_R=20V, T_J=150^{\circ}C$		50	
	$V_R=20V$		25	
Typical Junction Capacitance	$V_f=1V, f=1MHZ$	C_J	4.0	pF
Typical Thermal Resistance		$R_{\theta JA}$	350	$^{\circ}C/W$

Note : (1) Valid provided leads at a distance of 0.31" (8mm) from case are kept at ambient temperature

TYPICAL CHARACTERISTICS CURVES





DIMENSIONS in inch (mm)



DO-35

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