Voltage Ratings

Part Number	V_{RRM} , maximum peak reverse voltage V	V_{DC}, maximum blocking voltage V	I_{RRM} 100°C µA
10DF1	100	100	500
10DF2	200	200	
10DF4	400	400	
10DF6	600	600	
10DF8	800	800	

Maximum Ratings and Electrical Characteristics

Parameters		10DF.	Units	Conditions
$I_{F(AV)}$	Maximum Average Forward Current	1	A	@ T_A = 55° C, 3/8" lead length, 60Hz resistive or inductive load
I_{FSM}	Peak Forward Surge Current	34	A	8.3ms single half sine wave superimposed on rated load (JEDEC Method)
V_{FM}	Max. Instantaneous Forward Voltage	1.2	V	@ 1A
I_{RM}	Maximum DC Reverse Current	10	µA	T_J = 25° C
	at Rated DC Blocking Voltage	500		T_J = 100° C
t_{rr}	Reverse Recovery Time	100	ns	I_F = 0.5A, I_R = 1.0A, I_{rr} = 0.25A
C_J	Typical Junction Capacitance	170	pf	@ 1MHz applied reverse voltage of 4.0V_{DC}
R_{thJA}	Max. Junction Thermal Resistance	115	°C/W	lead length 0.375"(9.5mm) P.C.B. mounted
T_J	Operating Temperature Range	-65 to 150	°C	
T_{stg}	Storage Temperature Range	-65 to 150	°C	
wt	Approximate Weight	0.3 (0.013)	g (oz)	
	Case Style	DO-204AL(DO-41)		JEDEC molded plastic

Ratings at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.

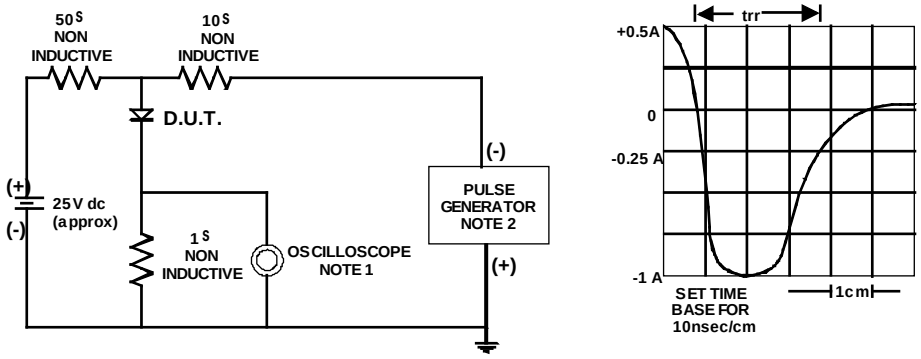

Fig.1-Reverse Recovery Time Characteristic and Test Circuit Diagram

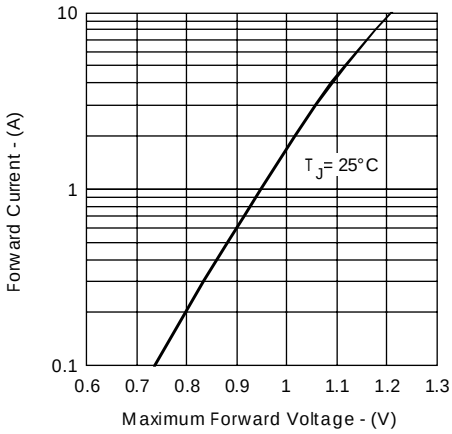

Fig.2-Forward Characteristic

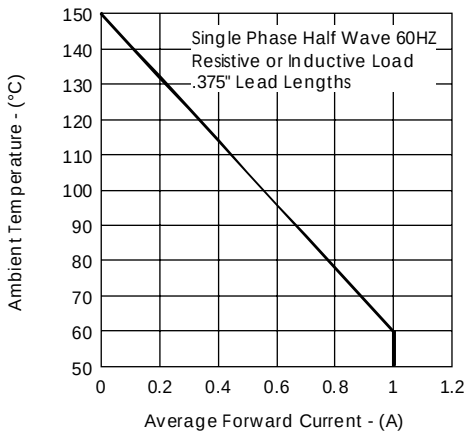

Fig.6-Forward Current Derating Curve

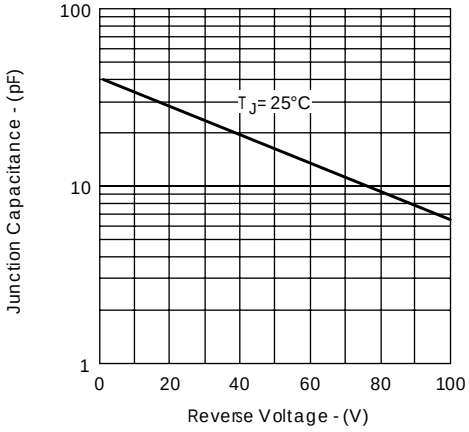

Fig.3-Typical Junction Capacitance

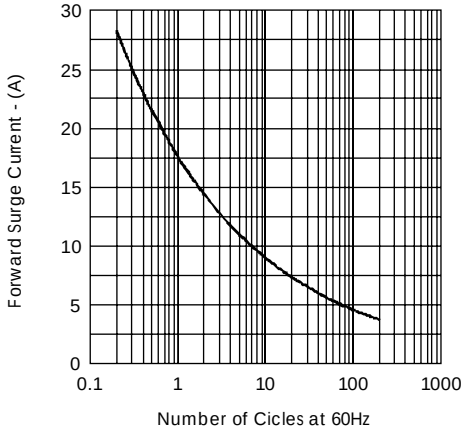

Fig.4-Forward Surge Characteristic