

FR251 – FR257P

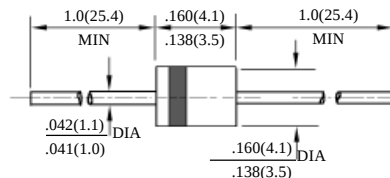
2.5A 快速二极管

2.5A FAST RECOVERY DIODES

型 号 TYPE	最大反向 峰值电压 Maximum Peak Reverse Voltage	最大平均正向电流 Maximum Average Rectified Current @ Half-Wave Resistive Load 60Hz		最大正向浪涌电流 Maximum Forward Peak Surge Current @ 8.3ms Superimposed	最大反向漏电流 Maximum Reverse Current @ PRV @ T _A =25°C	最大正向电压 Maximum Forward Voltage @ T _A =25°C		最大反向 恢复时间 Maximum Reverse Recovery Time	外型尺寸 Package Dimensions
	PRV	I _O @ T _L		I _{FM} (Surge)	I _R	I _{FM}	V _{FM}	T _{rr}	
	V _{PK}	A _{AV}	°C	A _{PK}	μA _{dc}	A _{PK}	V _{PK}	ns	
FR251	50	2.5	75	150	5.0	2.5	1.3	150	R – 3
FR252	100							150	
FR253	200							150	
FR254	400							150	
FR255	600							250	
FR256	800							500	
FR257	1000							500	
FR257P	1000							250	

T_{rr}测试条件: I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A

T_{rr} Test Conditions: I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A



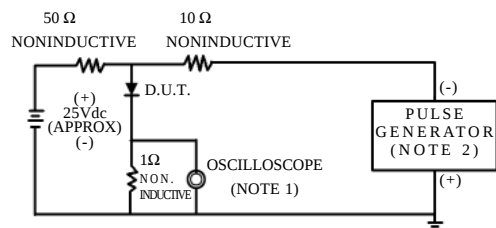
R - 3

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2.5A 快速二极管额定值与特性曲线

RATING & CHARACTERISTIC CURVES OF 2.5A FAST DIODES

FIG.1–TEST CIRCUIT DIAGRAM AND
REVERSE RECOVERY TIME CHARACTERISTIC



NOTES: 1. Rise Time = 7ns max.
Input Impedance = 1megohm. 22pF.
2. Rise Time = 10ns max.
Source Impedance = 50 ohms.

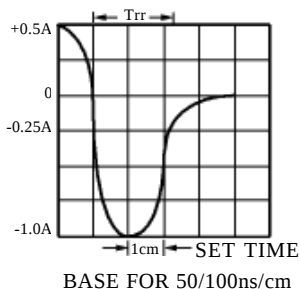


FIG. 2 – TYPICAL FORWARD
CURRENT DERATING CURVE

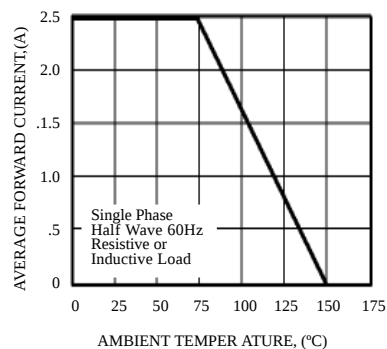


FIG. 4 – MAXIMUM NON-REPETITIVE
FORWARD SURGE CURRENT

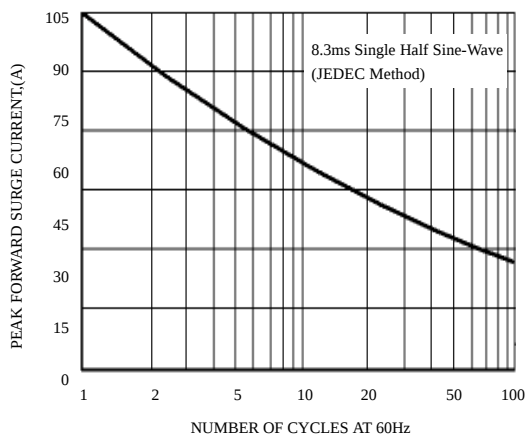


FIG. 3 – TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

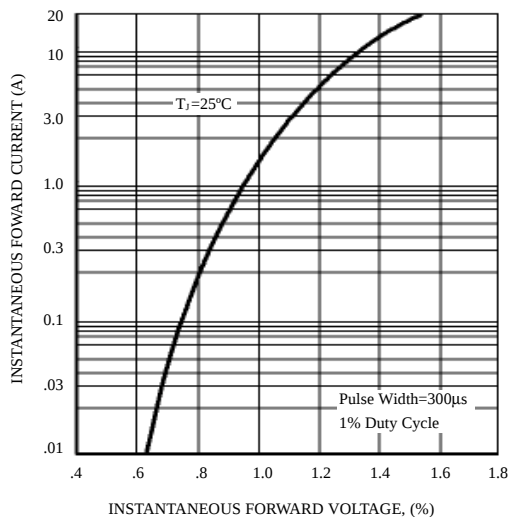


FIG. 5 – TYPICAL JUNCTION CAPACITANCE

