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Surface Mount Superfast Recovery Rectifier,Reverse Voltage:50 to600V,Forward Current:1.0A, SMAF thin package.

[illegible]

Features: Glass Passivated Chip Junction Fast reverse recovery time Lead free in comply with EU R0HS 2011/65/EU directives


/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating							Unit
		ES1AF	ES1BF	ES1CF	ES1DF	ES1EF	ES1GF	ES1JF	
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	150	200	300	400	600	V
Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	420	V
Maximum DC Blocking Voltage	V_{DC}	50	100	150	200	300	400	600	V
Maximum Average Forward Rectified Current at $T_L=100$	$I_{F AV}$	1.0							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30							A
Typical Junction Capacitance at $V_R=4V, f=1MHz$	C_j	10							pF
Typical Thermal Resistance ¹	$R_{\theta JA}$	115							/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150							

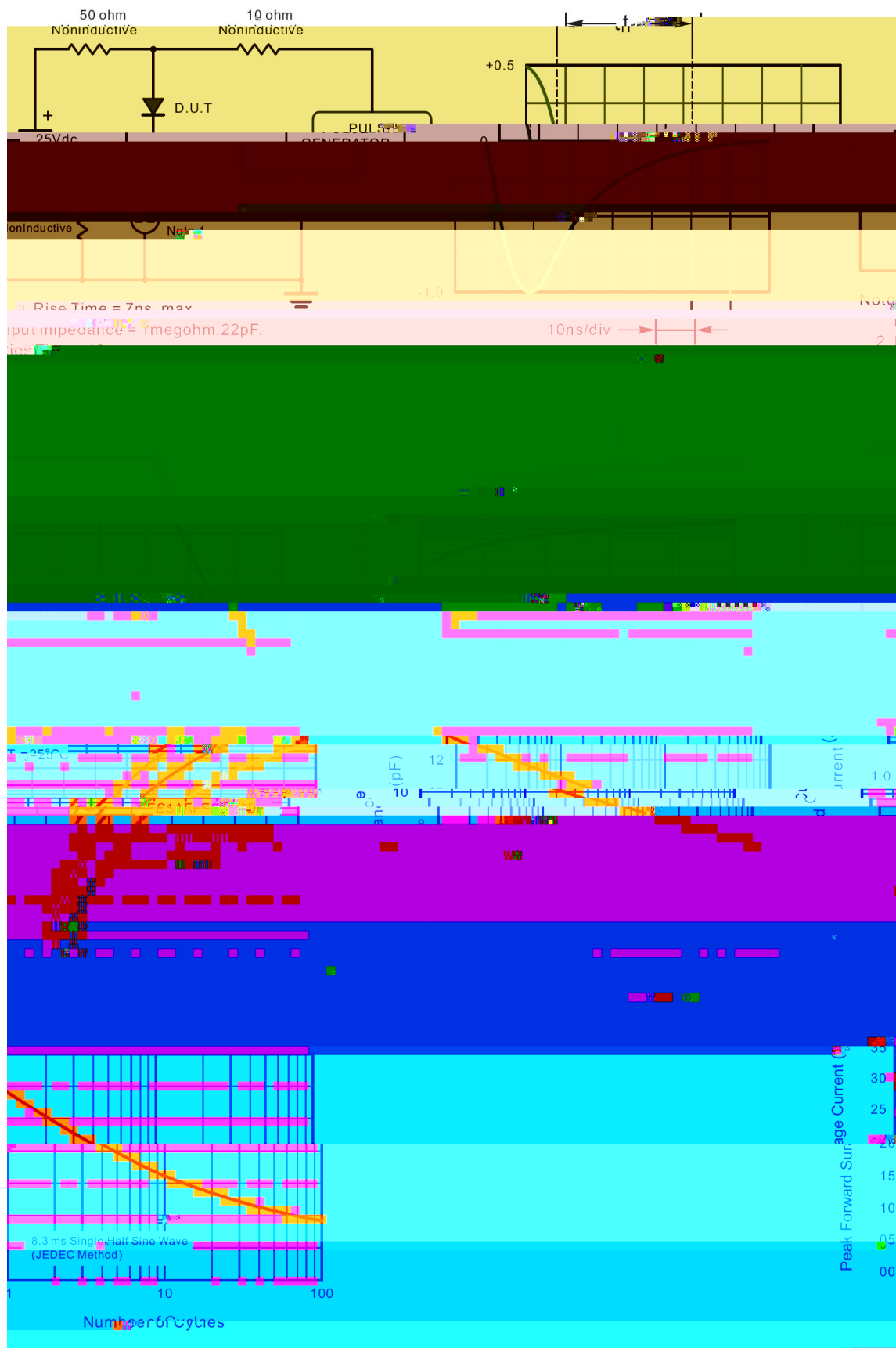
Note:

1 P.C.B. mounted with 0.2X0.2"(5X5 mm) copper pad areas.

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test Conditions	Rating							Unit
			ES1AF	ES1BF	ES1CF	ES1DF	ES1EF	ES1GF	ES1JF	
Maximum Forward Voltage	V _F	I _F =1.0A	1.0				1.25		1.65	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	T _a =25	5.0							μA
		T _a =125	100							μA
Maximum Reverse Recovery Time	t _{rr}	I _F =0.5A I _R =1.0A I _{rr} =0.25A	35							ns

/ Electrical Characteristic Curve



/ Marking Instructions

Marking

Type number	Marking code
ES1AF	ES1A
ES1BF	ES1B
ES1CF	ES1C
ES1DF	ES1D
ES1EF	ES1E
ES1GF	ES1G

/ Marking Instructions



б " X

HV4G X 𐄂 𐄃 N 𐄅

**** X 𐄂 1 F 𐄅 N 𐄇 . 1 𐄉 4 A 𐄂 W 𐄅 𐄇 1 𐄂 = 6 A 𐄂 E 𐄅 𐄇 𐄅 N 𐄇

Note:

HV4G X Product Type Code

**** X Lot No. Code (The 1st means:YM Code (The last 3 means:little Lot No Code

ES1AF~ES1JF

Rev.F May.-2019

DATA SHEET