

Surface Mount Rectifiers

ES2AFA--ES2JFA

FEATURES

- Low cost
- Low leakage
- Low forward voltage drop
- High current capability
- Easily cleaned with Alcohol, Isopropanol and similar solvents
- The plastic material carries U/L recognition 94V-0



Lead-free



MECHANICAL DATA

- Case: SMAFL molded plastic
- Terminals: Solder able per MIL- STD-202,Method 208
- Polarity: Color band denotes cathode
- Mounting position: Any

Maximum Ratings(@TA = 25°C unless otherwise specified)

Characteristic	Symbol	ES2AFA	ES2BFA	ES2CFA	ES2DFA	ES2GFA	ES2HFA	ES2JFA	UNITS
Marking code		E2A	E2B	E2C	E2D	E2G	E2H	E2J	
Maximum recurrent peak reverse voltage	V_{RRM}	50	100	150	200	400	500	600	V
Maximum RMS voltage	V_{RMS}	35	70	105	140	280	350	420	V
Maximum DC blocking voltage	V_{DC}	50	100	150	200	400	500	600	V
Maximum average forward rectified current @TA=110°C	$I_{F(AV)}$	2.0							A
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load @TJ=125°C	I_{FSM}	50							A

Thermal Characteristics

Characteristic	Symbol	ES2AFA	ES2BFA	ES2CFA	ES2DFA	ES2GFA	ES2HFA	ES2JFA	UNITS
Operating junction temperature range	T_J	- 55 ---- + 150							°C
Storage temperature range	T_{STG}	- 55 ---- + 150							°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

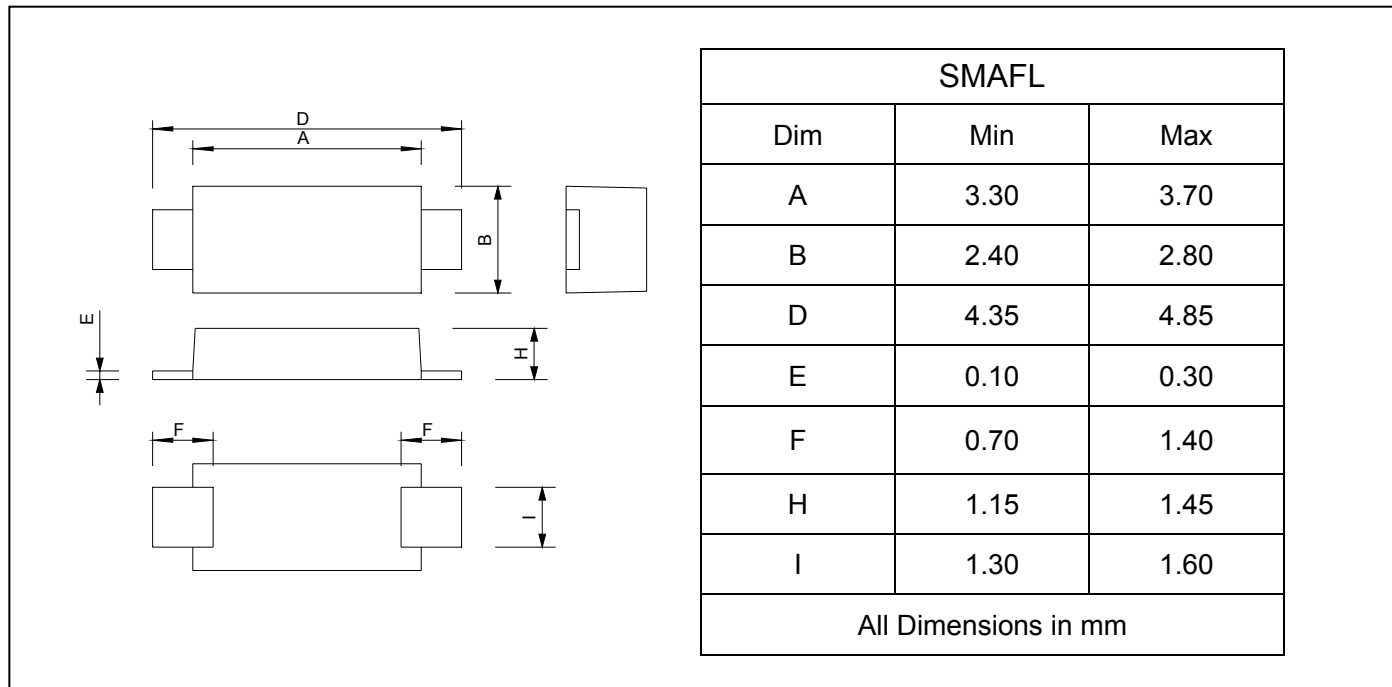
Characteristic	Symbol	ES2AFA	ES2BFA	ES2CFA	ES2DFA	ES2GFA	ES2HFA	ES2JFA	UNITS
Maximum instantaneous forward voltage @2.0 A	V _F	0.95				1.25	1.7		V
Maximum reverse current @T _A =25°C at rated DC blocking voltage @T _A =125°C	I _R	10.0 350							μ A
Maximum Reverse Recovery Time (Note1)	t _{rr}	35							ns

NOTE: 1. Measured with $I_F=0.5A$, $I_R=1A$, $I_{rr}=0.25A$.

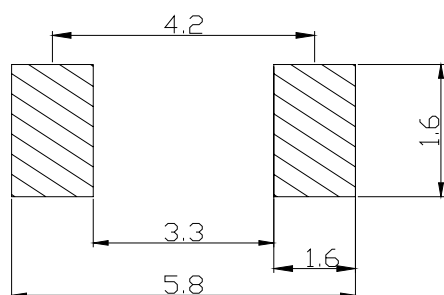
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PACKAGE OUTLINE DIMENSIONS



SOLDERING FOOTPRINT



Unit : mm

PACKAGE INFORMATION

Device	Package	Shipping
ES2AFA--ES2JFA	SMAFL	10000/Tape&Reel

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ES2AFA--ES2JFA

FIG.1 -- TYPICAL FORWARD CHARACTERISTIC

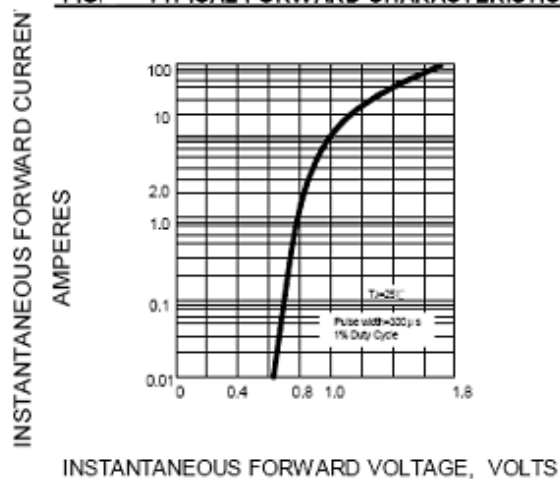


FIG 2 -- FORWARD DERATING CURVE

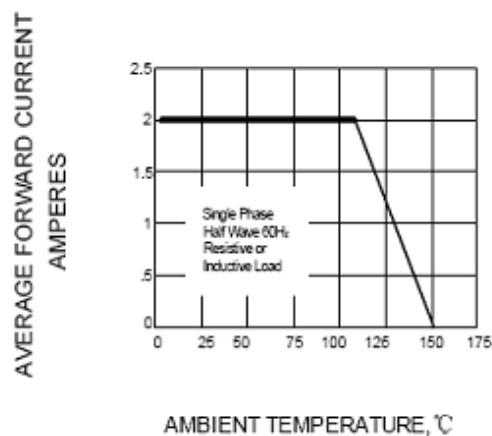


FIG.3 -- PEAK FORWARD SURGE CURRENT

