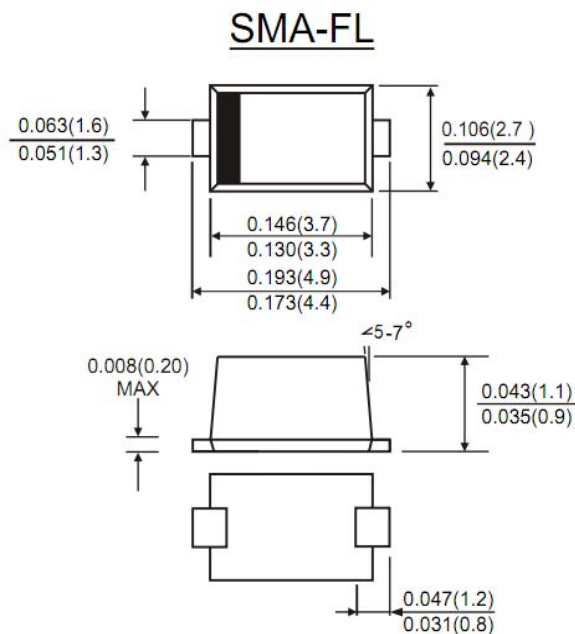


Features

- Glass passivated junction dice
- Low forward voltage drop
- High current capability
- Low reverse leakage
- High surge current capability
- High reliability
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

Mechanical Data

- Case: SMA molded plastic body
- Terminals: Plated axial leads, solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.0027 grams (approximate)



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER	SYMBOL	ES2AF	ES2BF	ES2CF	ES2DF	ES2EF	ES2GF	ES2JF	UNITS
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
Average Rectified Output Current 0.375" (9.5mm) lead length	I_o	2.0							A
Peak forward surge current, 8.3 mS single half sine-wave superimposed on rated load	I_{FSM}	50							A
Maximum instantaneous forward voltage at I_o	V_F	0.95				1.30		1.7	V
Maximum DC reverse current at rated DC blocking voltage	I_R					5 100			μA
Maximum reverse recovery time (Note 1)	t_{rr}					35			nS
Typical junction capacitance (Note 2)	C_j					30			pF
Operating junction temperature range	T_J					-55 to +150			°C
Storage temperature range	T_{STG}					-55 to +150			°C

Notes: 1. Reverse Recovery Time test condition: $I_F=0.5A$, $I_R=1.0A$, $IRR=0.25A$.
2. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.



Ratings and Characteristic Curves

FIG. 1 – TYPICAL FORWARD CURRENT DERATING CURVE

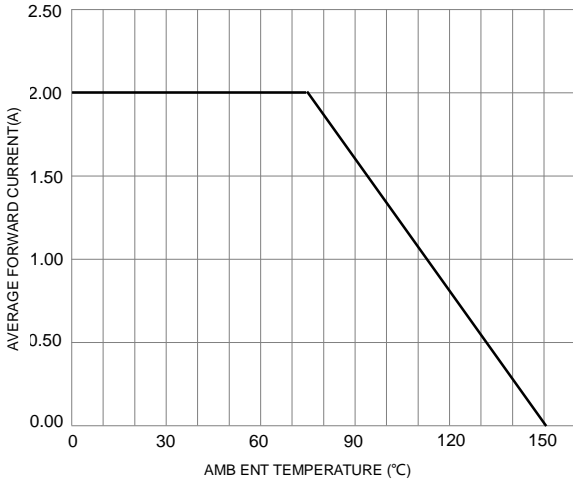


FIG. 2 – TYPICAL FORWARD CHARACTERISTICS

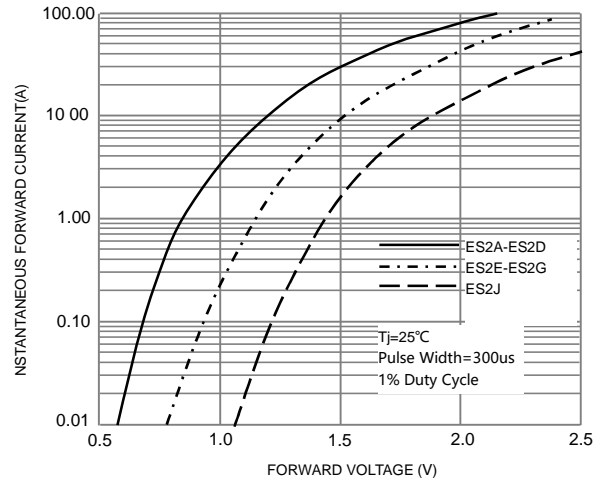


FIG. 3 – MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

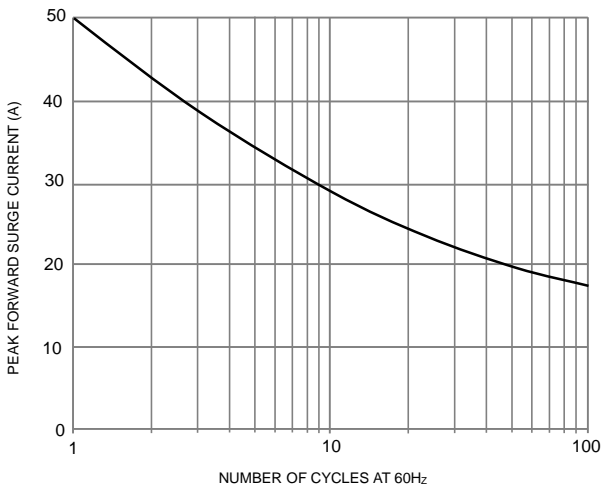


FIG. 4 – TYPICAL REVERSE CHARACTERISTICS

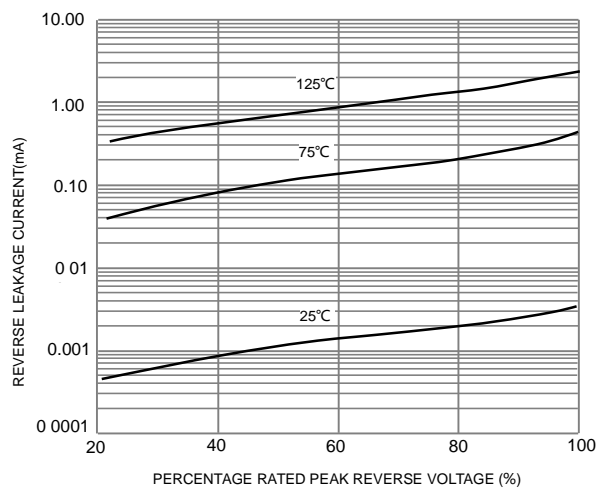


FIG. 5 – TYPICAL JUNCTION CAPACITANCE

