

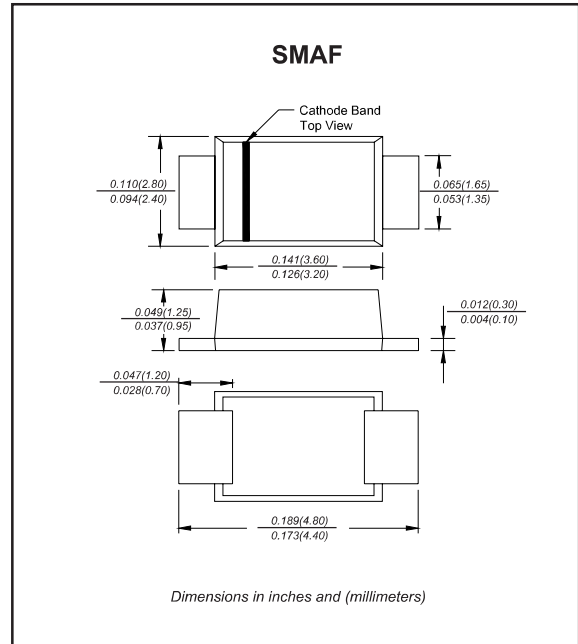
Features

- ▶ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ▶ For surface mounted applications
- ▶ Metal silicon junction, majority carrier conduction
- ▶ Low power loss, high efficiency
- ▶ Built-in strain relief, ideal for automated placement
- ▶ High forward surge current capability
- ▶ High temperature soldering guaranteed: 250°C/10 seconds at terminals
- ▶ Compliant to RoHS Directive 2011/65/EU
- ▶ Compliant to Halogen-free

Mechanical data

- ▶ **Case:** JEDEC SMAF molded plastic body
- ▶ **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- ▶ **Polarity:** Color band denotes cathode end
- ▶ **Mounting Position:** Any

Package outline



Maximum ratings and Electrical Characteristics (AT $T_A=25^\circ\text{C}$ unless otherwise noted)

PARAMETER	CONDITIONS	Symbol	MIN.	TYP.	MAX.	UNIT
Forward rectified current	See Fig.2	I_O			3.0	A
Forward surge current	8.3ms single half sine-wave (JEDEC methode)	I_{FSM}			80	A
Reverse current	$V_R = V_{RRM}$ $T_A = 25^\circ\text{C}$	I_R			0.5	mA
	$V_R = V_{RRM}$ $T_A = 100^\circ\text{C}$				10	
Thermal resistance (1)	Junction to Ambient	$R_{\theta JA}$		78		$^\circ\text{C/W}$
	Junction to Case	$R_{\theta JC}$		18		
	Junction to Lead	$R_{\theta JL}$		20		
Diode junction capacitance	f=1MHz and applied 4V DC reverse voltage	C_j		28		pF
Storage temperature		T_{STG}	-65		+150	$^\circ\text{C}$

Note: (1) Device mounted on p.c.b. with 10 mm x 20 mm x 0.1 mm copper pad area.

SYMBOLS	V_{RRM}^{*1} (V)	V_{RMS}^{*2} (V)	V_R^{*3} (V)	V_F^{*4} (V)	Operating temperature T_J , ($^\circ\text{C}$)
SL34-F	40	28	40	0.45	-55 to +125
SL345-F	45	32	45		
SL35-F	50	35	50	0.55	-55 to +150
SL36-F	60	42	60		
SL38-F	80	56	80	0.75	
SL310-F	100	70	100		
SL315-F	150	105	150	0.85	
SL320-F	200	140	200		

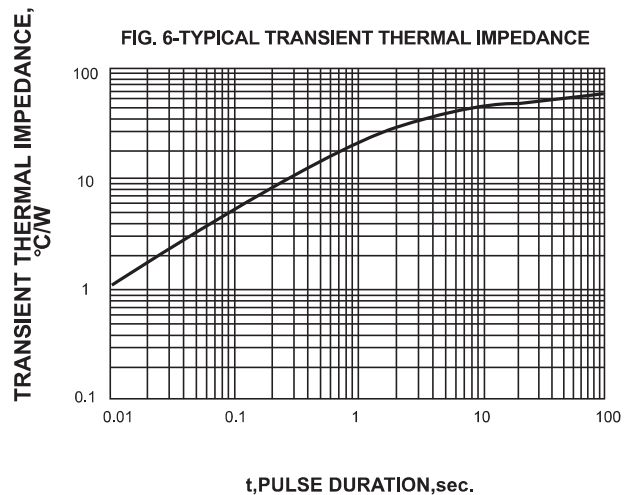
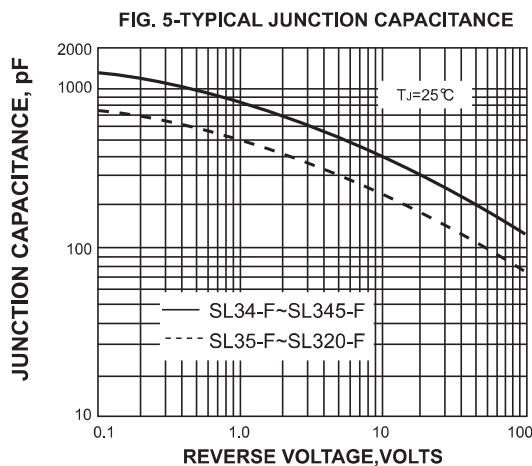
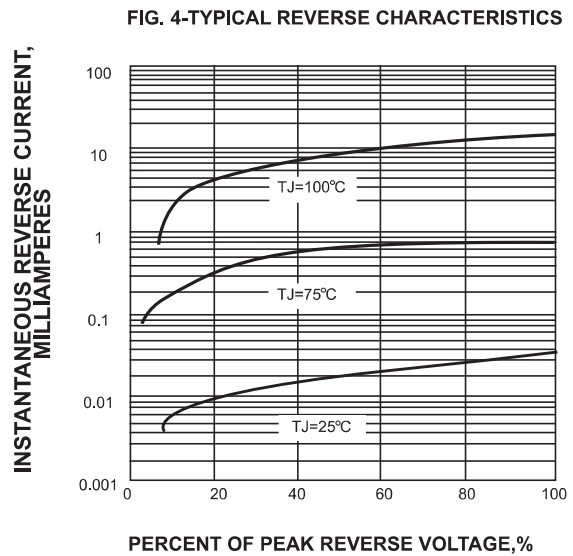
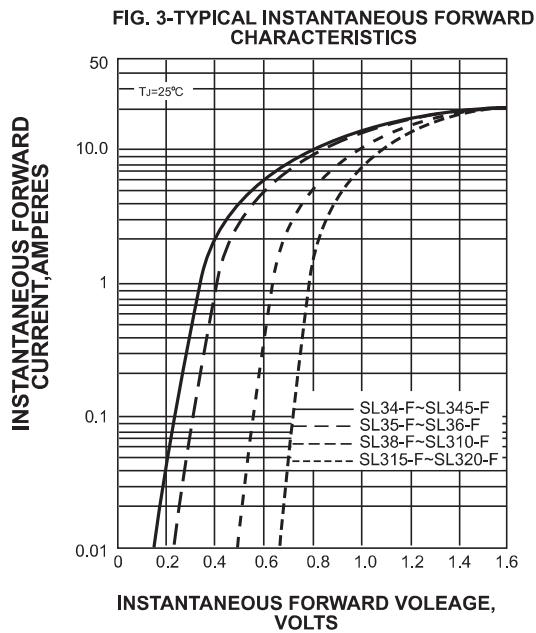
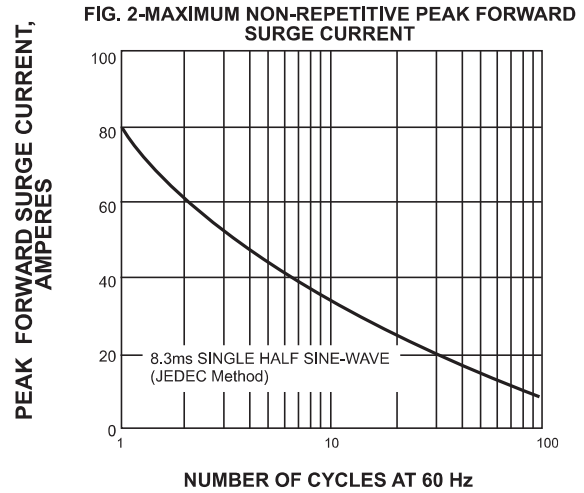
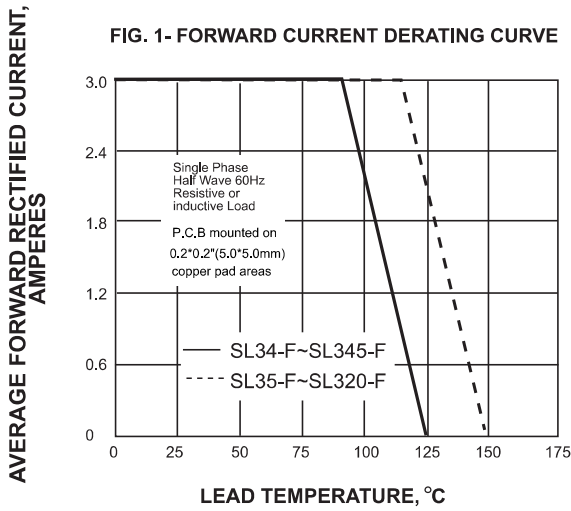
*1 Repetitive peak reverse voltage

*2 RMS voltage

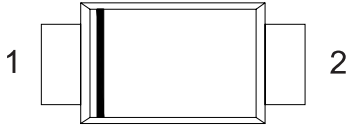

*3 Continuous reverse voltage

*4 Maximum forward voltage@ $I_F=3.0\text{A}$

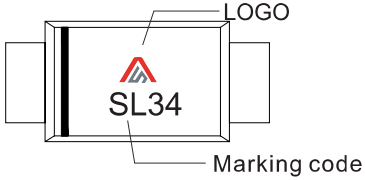
Rating and characteristic curves



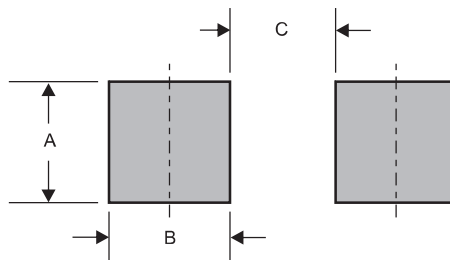
Pinning information

Pin	Simplified outline	Symbol
Pin1 cathode Pin2 anode		

Marking

Type number	Marking code	Example
SL34-F	SL34	
SL345-F	SL345	
SL35-F	SL35	
SL36-F	SL36	
SL38-F	SL38	
SL310-F	SL310	
SL315-F	SL315	
SL320-F	SL320	

Suggested solder pad layout



Dimensions in inches and (millimeters)

PACKAGE	A	B	C
SMAF	0.110 (2.80)	0.063 (1.60)	0.087 (2.20)