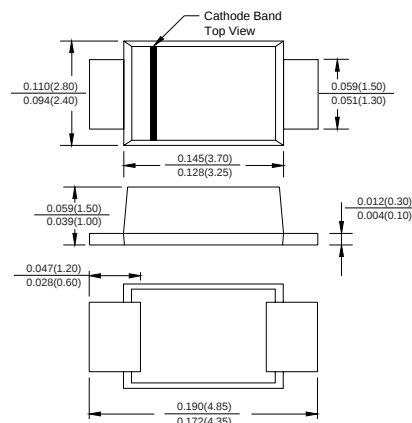




SMAF



Dimensions in inches and (millimeters)

FEATURES

- ✧ Schottky barrier rectifier
- ✧ Guarding protection
- ✧ Low forward voltage
- ✧ Reverse energy tested
- ✧ High current capability
- ✧ Extremely low thermal resistance
- ✧ This product not contains Antimony and Bromine compounds (rFR)

MECHANICAL DATA

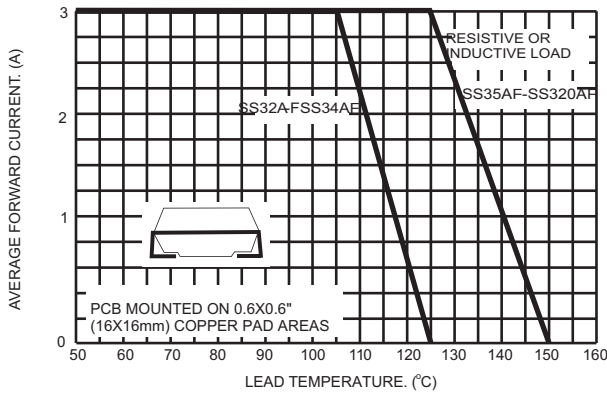
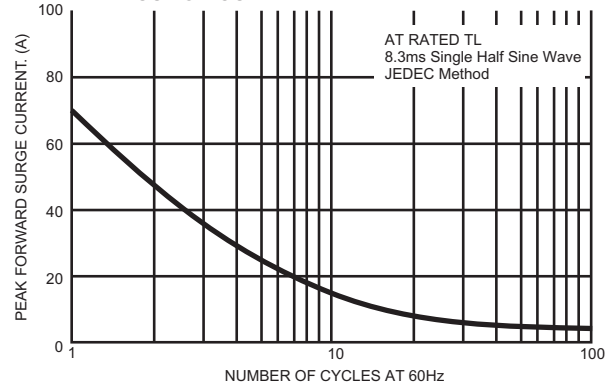
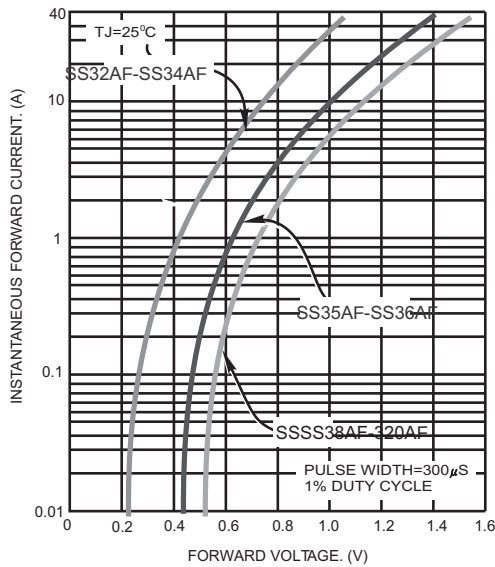
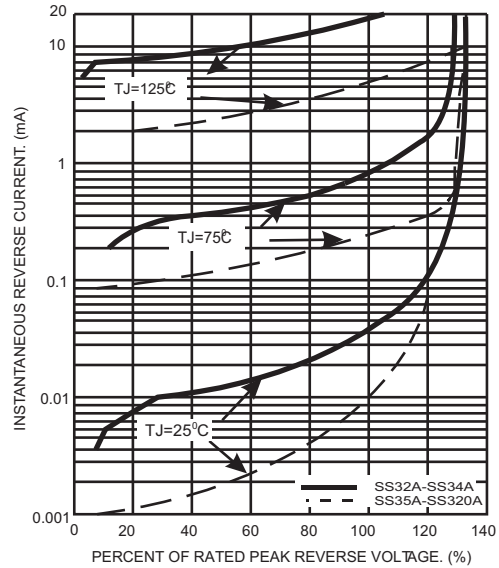
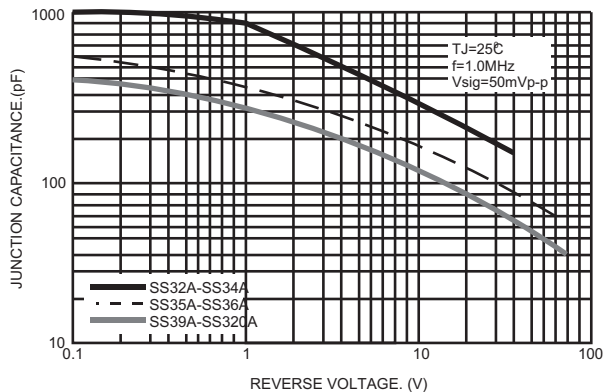
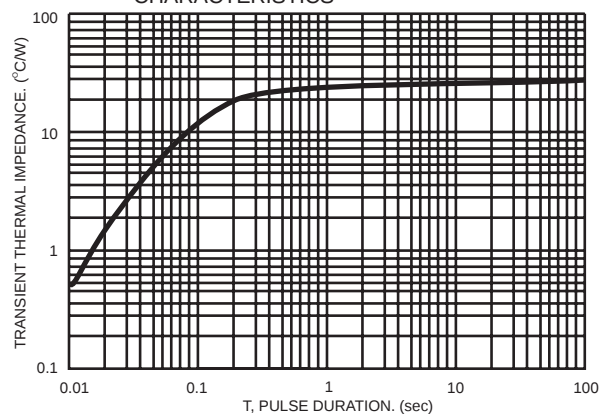
- ✧ Case: SMAFL molded plastic body
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: ANY

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified

Parameter	Symbol	SS32 AF	SS33 AF	SS34 AF	SS35 AF	SS36 AF	SS38 AF	SS39 AF	SS310 AF	SS315 AF	SS320 AF	UNITS
Device marking code		SS32	SS33	SS34	SS35	SS36	SS38	SS39	SS310	SS315	SS320	
Maximum repetitive peak reverse voltage	V _{RRM}	20	30	40	50	60	80	90	100	150	200	V
Maximum RMS voltage	V _{RWS}	14	21	28	35	42	56	63	70	105	140	V
Maximum DC blocking voltage	V _{DC}	20	30	40	50	60	80	90	100	150	200	V
Maximum average forward rectified current at T _L =90℃	I _{F(AV)}	3.0										A
Peak forward surge current 8.3ms single half-sine-wave	I _{FSM}	100.0										A
Maximum instantaneous forward voltage at I _{FM} =3.0A (NOTE1)	V _F	0.55			0.75				0.85			V
Maximum DC reverse current T _J =25℃ at rated DC blocking voltage T _J =125℃	I _R	0.5										m A
		20			10							
Maximum thermal resistance	R _{θJL}	17.0										℃/W
Operating temperature range	T _J	-55----+150						- 55 ---- +175				℃
Storage temperature range	T _{STG}	-55----+150						- 55 ---- +175				℃

NOTE: 1.Pulse test: Pulse width 300us, duty cycle 1 %

RATINGS AND CHARACTERISTIC CURVES (SS32A THRU SS320A)
FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

FIG.3- TYPICAL FORWARD CHARACTERISTICS

FIG.4- TYPICAL REVERSE CHARACTERISTICS

FIG.5- TYPICAL JUNCTION CAPACITANCE

FIG.6- TYPICAL TRANSIENT THERMAL CHARACTERISTICS


PACKAGE	SPQ/PCS	CARTON SPQ/PCS	CARTON SIZE/CM	CARTON GW/KG	CARTON NW/KG
SMAF	5000/REEL	80000	36X30.6X31	12.00	11.00