

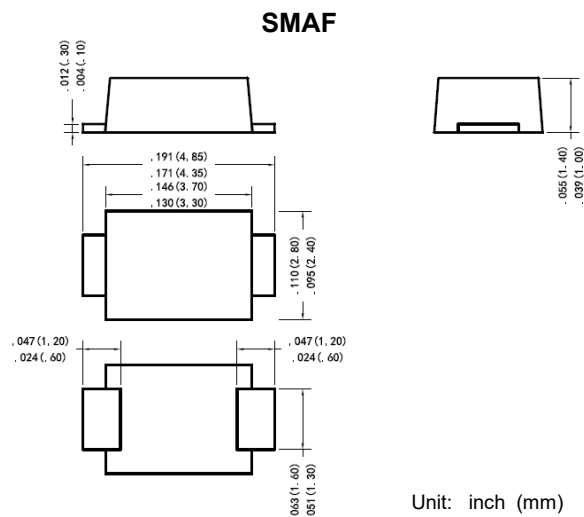
Surface Mount Rectifier Diode

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- High temperature soldering guaranteed:260°C/10seconds
- Lead and body according with RoHS standard
- Green compound with suffix "-F" on Marking

Mechanical Data

- Case:SMAF Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Pure tin plated, lead free



Maximum Ratings & Characteristics (T_A=25°C unless otherwise noted)

Parameter	Symbol	S2AAF	S2BAF	S2DAF	S2GAF	S2JAF	S2KAF	S2MAF	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum average forward rectified current	I _{F(AV)}	2.0							A
Non-repetitive peak forward surge current 8.3 ms singlehalf sine-wave	I _{FSM}	50							A
@I _F =2.0A Maximum forward voltage	V _F	1.1							V
@V _{DC} Maximum reverse current	I _R	5							μA
		100							
Typical thermal resistance (Note 1)	R _{θJA}	85							°C/W
VR=4.0V,f=1MHz Type junction capacitance	C _J	20							pF
Operating junction and storage temperature rang	T _J , T _{STG}	-55 to +150							°C

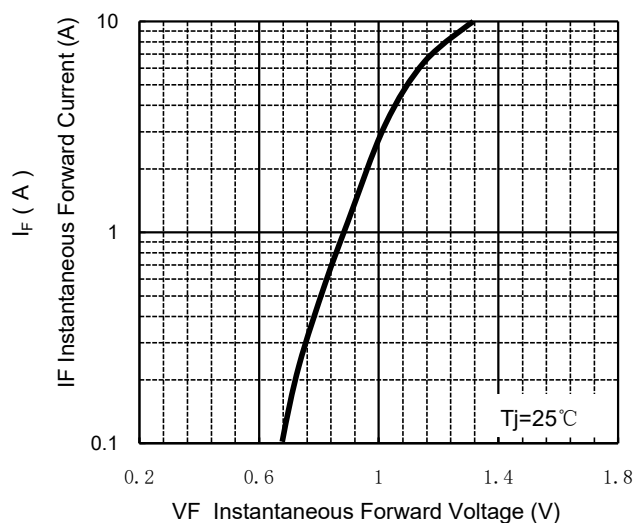
Note:

1) Thermal resistance from junction to ambient, PCB mounted.

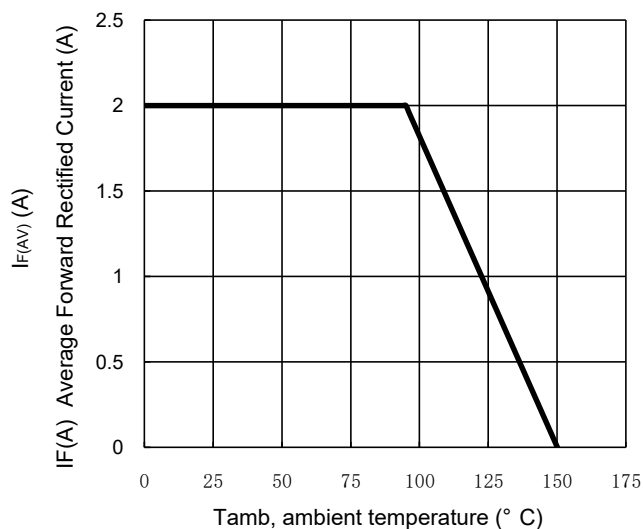


Characteristic Curves

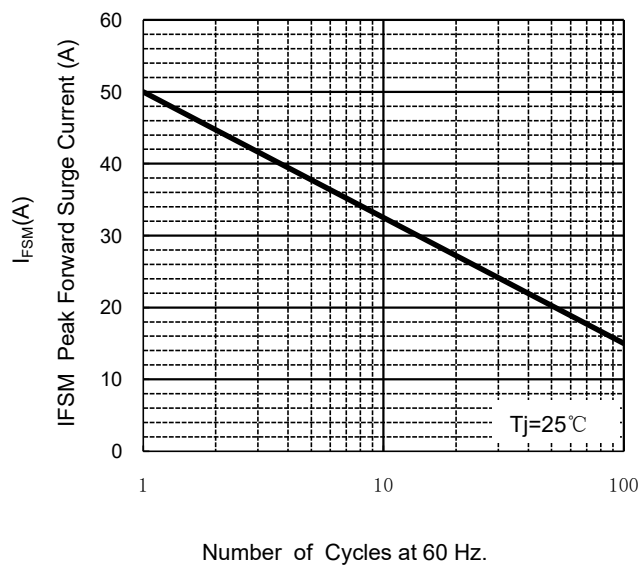
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS

