

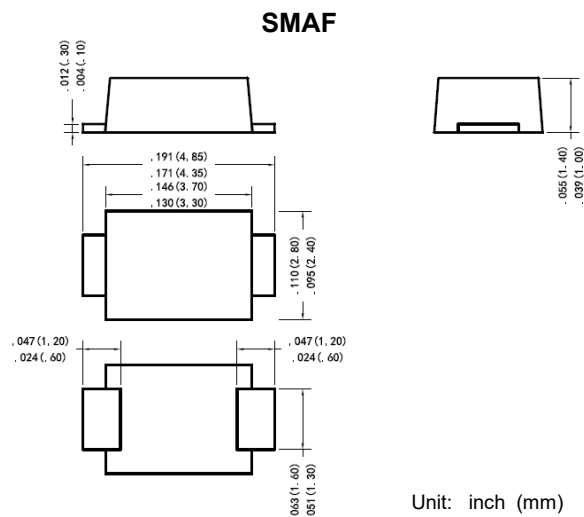
Surface Mount Rectifier Diode

Features

- Low reverse leakage
- High forward surge capability
- High reliability
- AEC-Q101 qualified
- 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	S2A AFQ	S2B AFQ	S2D AFQ	S2G AFQ	S2J AFQ	S2K AFQ	S2M AFQ	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}	T _A = 25°C	I _R	5							μA
Maximum reverse current	T _A = 125°C		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

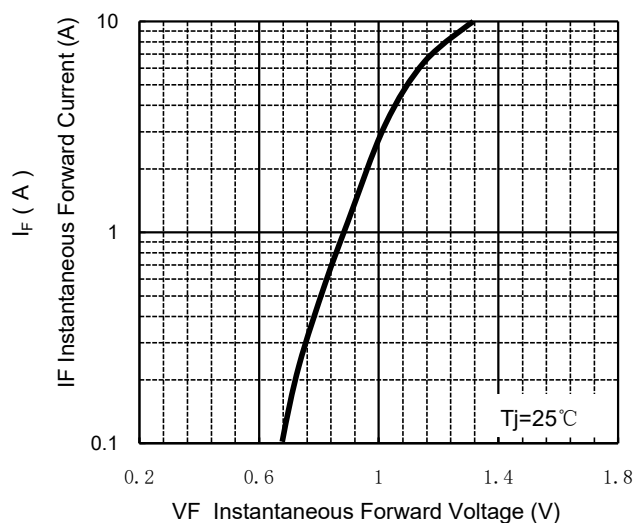
Note:

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

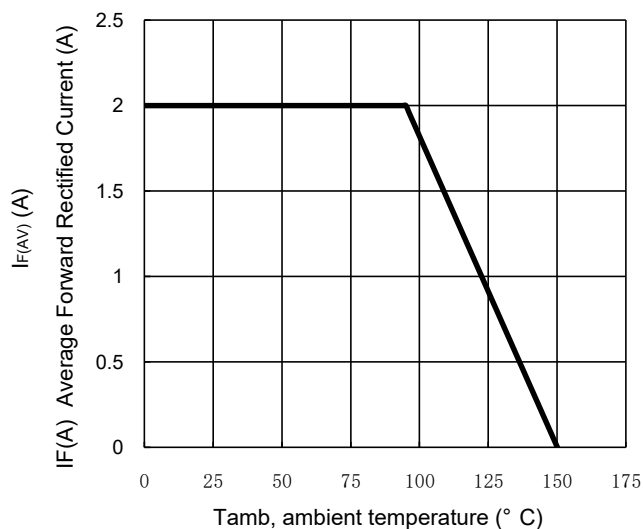


Characteristic Curves

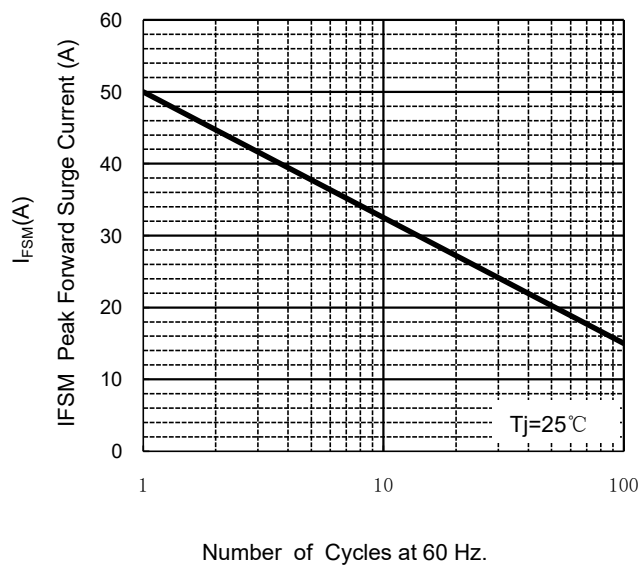
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON REPETITIVE
PEAK FORWARD SURGE CURRENT



TYPICAL REVERSE CHARACTERISTICS

