

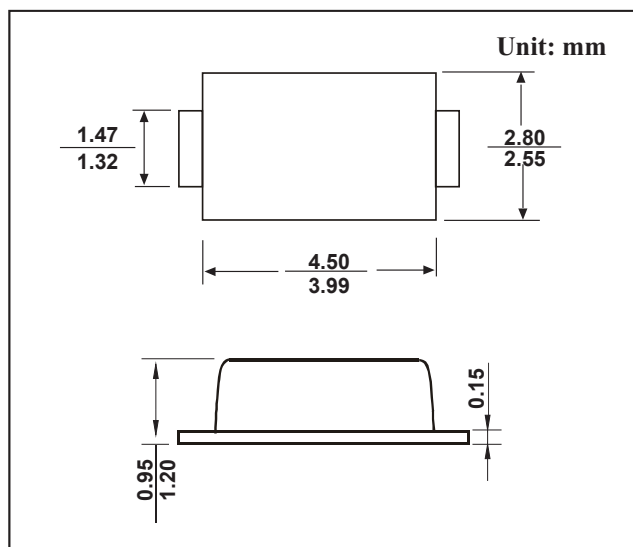
SMAF SCHOTTKY BARRIER DIODE

FEATURES

- The plastic package carries Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High reliability
- High temperature soldering guaranteed:260 °C/10 seconds at terminals
- Component in accordance to RoHs 2015/863 and WEEE 2012/19/EU

MECHANICAL DATA

- Case style: SMAF molded plastic
- Mounting position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Characteristic	Symbol	SS22F	SS23F	SS24F	SS245F	Units
Peak repetitive reverse voltage	V _{RRM}	20	30	40	45	V
RMS reverse voltage	V _{RMS}	14	21	28	31.5	V
DC blocking voltage	V _{DC}	20	30	40	45	V
Maximum average forward output current	I _{F(AV)}	2.0				A
Peak forward surge current, 8.3ms single half-sine-wave	I _{FSM}	50				A
Typical thermal resistance (Note 1)	R _{θJA}	78				°C /W
	R _{θJC}	18				
	R _{θJL}	20				
Operating junction temperature range	T _J	- 55 ---- + 125				°C
Storage temperature range	T _{STG}	- 55 ---- + 150				°C

Parameter	Symbol	Test conditions		Typ.	Max.	Units
Maximum instantaneous forward voltage	V_F	$I_F = 2.0A$	@ $T_A = 25^\circ C$	--	0.5	V
Maximum Reverse current	I_R	Rated V_R ,	@ $T_J = 25^\circ C$	--	500	μA
			@ $T_J = 100^\circ C$	--	20	m A



RATINGS AND CHARACTERISTIC CURVES

Fig.1-Forward Current Derating Curve

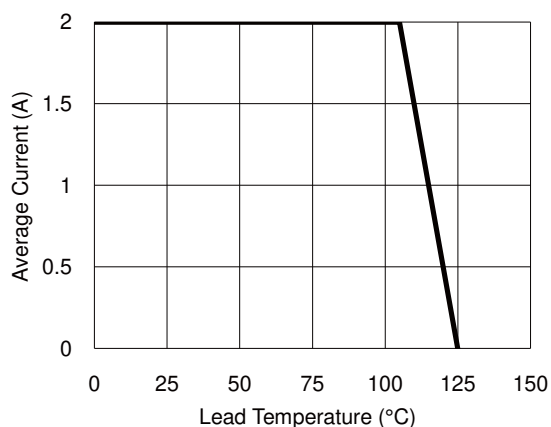


Fig.2- Surge Current Derating Curve

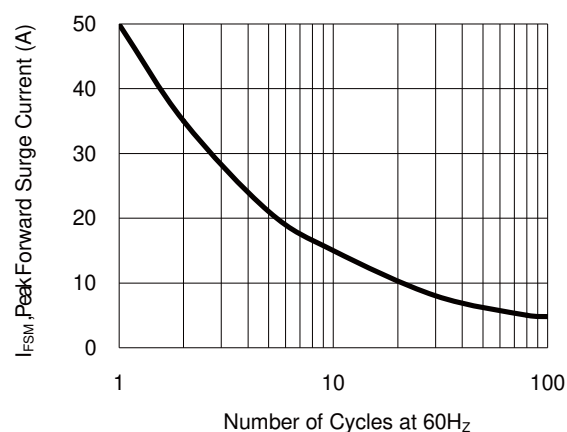


Fig.3- Typical Forward Voltage Characteristic

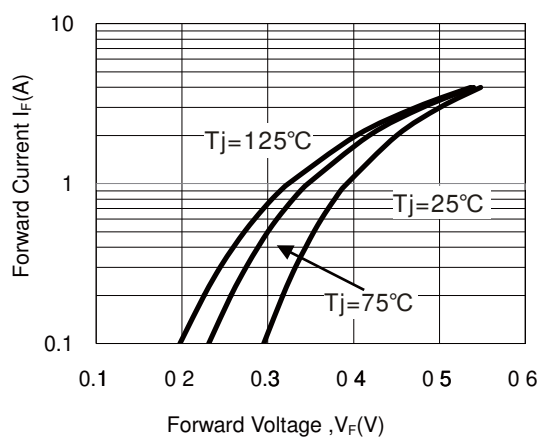


Fig.4- Typical Reverse Characteristic

