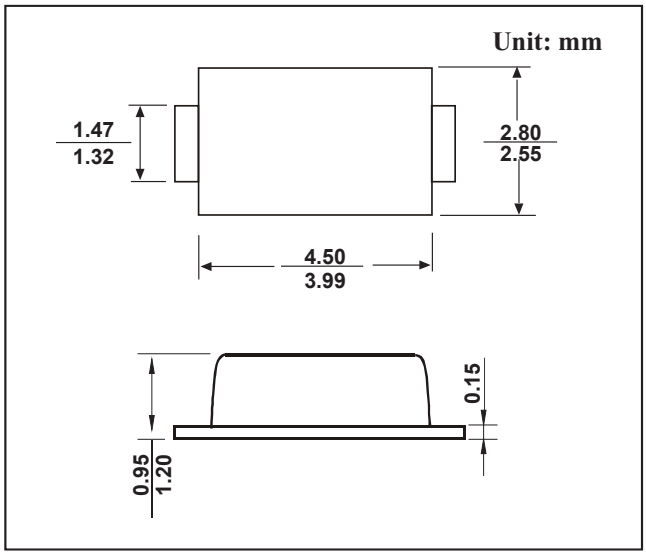
SMAF SCHOTTKY BARRIER DIODE

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 ℃/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)	$R_{\Theta JA}$	78				
	$R_{\Theta JC}$	18				°C /W
	$R_{\Theta JL}$	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°C	--	0.5	V
Maximum Reverse current	I_R	Rated V_R,	@T_J=25°C	--	500	μ A
			@T_J=100°C	--	20	m A

RATINGS AND CHARACTERISTIC CURVES

Fig.1-Forward Current Derating Curve

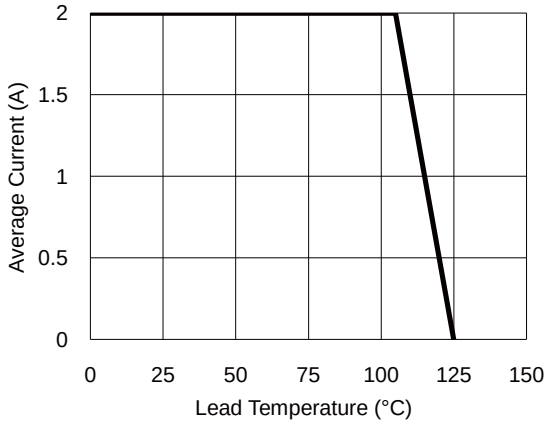


Fig.2- Surge Current Derating Curve

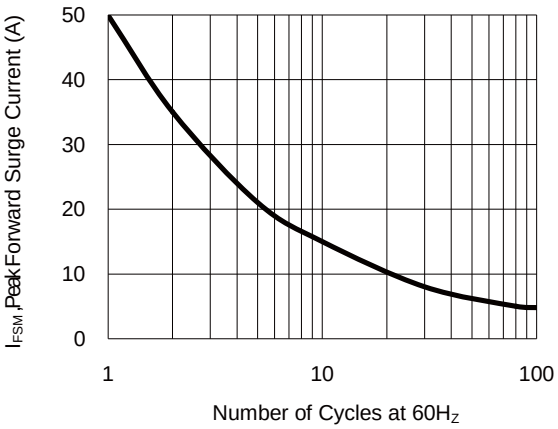


Fig.3- Typical Forward Voltage Characteristic

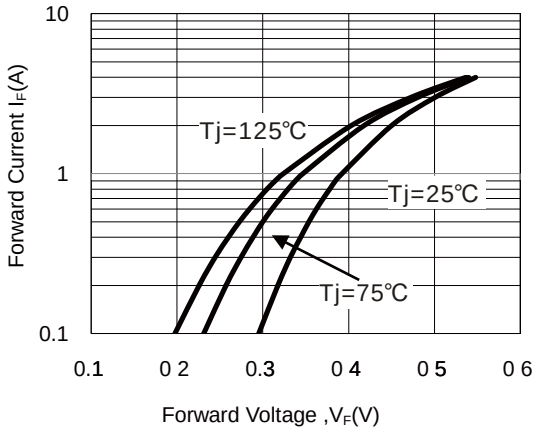


Fig.4- Typical Reverse Characteristic