5.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Features:

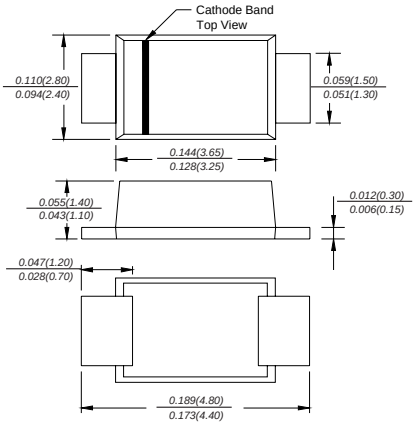
* Ideal for surface mount applications
* Easy pick and place
* Built-in strain relief
* Low forward voltage drop

Mechanical Data:

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Metallurgically bonded construction
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 0.063 grams

*BothnormalandPbfree productareavailable:
*Normal:80~95%Sn,5~20%Pb
*Pbfree:99SnabovecanmeetRohsenviromentsubstance directiverequest

SMAF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARA CTERISTICS

Rating 25℃ ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SS54F	SS545F	SS56F	SS58F	SS510F	SS515F	SS520F	UNITS
Maximum Recurrent Peak Reverse Voltage	40	45	60	80	100	150	200	V
Maximum RMS Voltage	28	32	42	56	70	105	140	V
Maximum DC Blocking Voltage	40	45	60	80	100	150	200	V
Maximum Average Forward Rectified Current See Fig.1	5.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	150							A
Maximum Instantaneous Forward Voltage at 2.0A	0.50		0.65	0.85				V
Maximum DC Reverse Current Ta=25℃	0.05							mA
at Rated DC Blocking Voltage Ta=100℃	5							mA
Typical Junction Capacitance (Note1)	170							pF
Typical Thermal Resistance R JA (Note 2)	70							°C/W
Operating Temperature Range TJ	-65 —+150							℃
Storage Temperature Range TSTG	-65 —+150							℃

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Ambient.

RATING AND CHARACTERISTIC CURVES (SS52F THRU SS520F)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

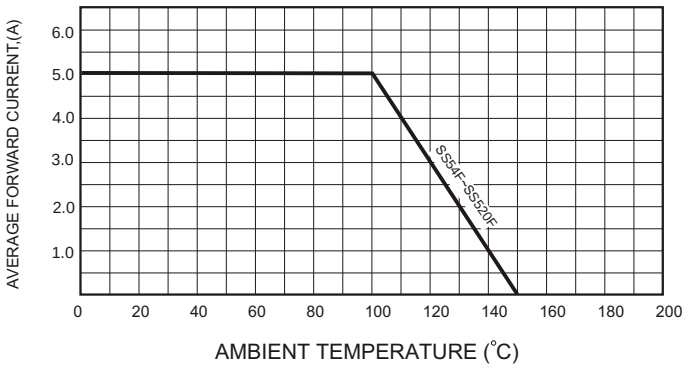


FIG.2-TYPICAL FORWARD CHARACTERISTICS

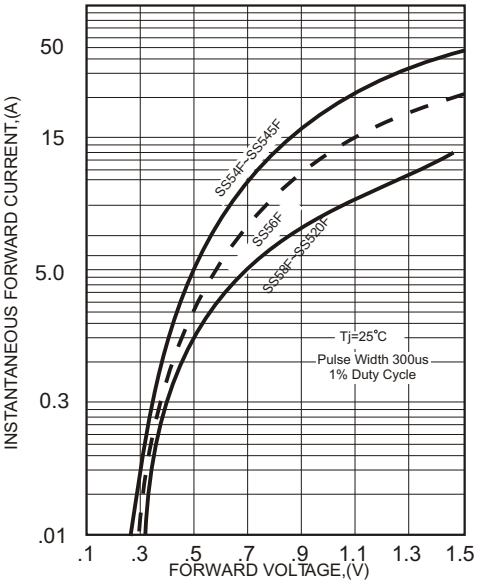


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

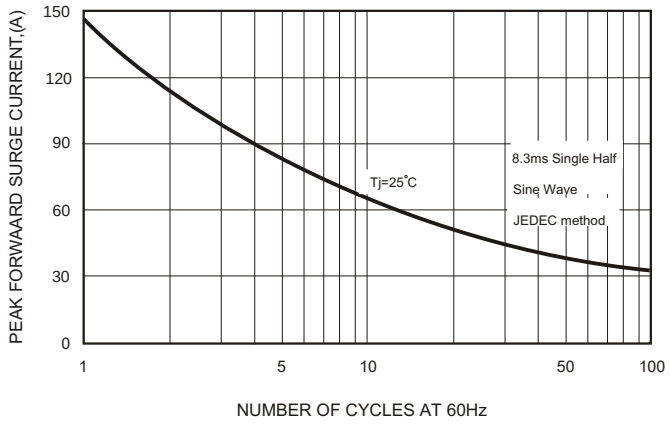


FIG.4-TYPICAL JUNCTION CAPACITANCE

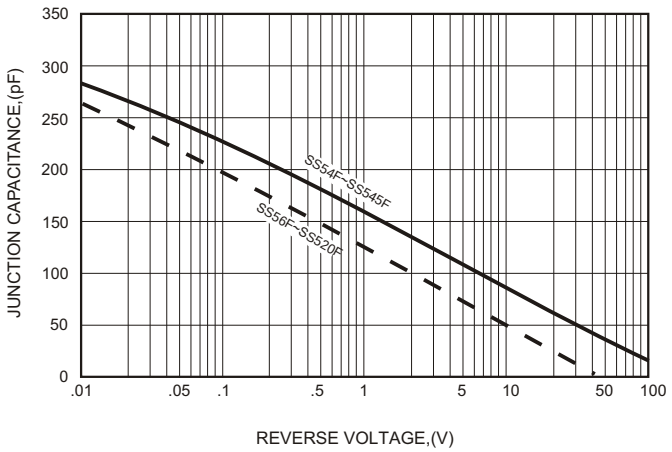


FIG.5 - TYPICAL REVERSE CHARACTERISTICS