SS3T10A

3.0AMPS. SCHOTTKY BARRIER RECTIFIERS

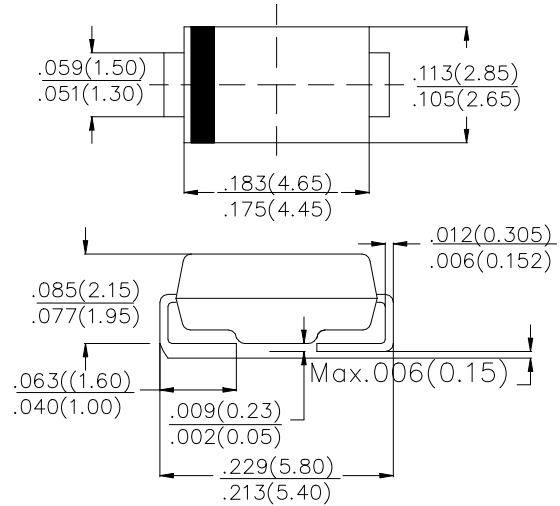### FEATURE

. For surface mounted application
. High current capability,
. Low forward voltage drop
. Low power loss, high efficiency
. High surge current capability
. High temperature soldering guaranteed
  260°C /10sec/0.375" lead length at 5 lbs tension

MECHANICAL DATA

. Terminal: Solder plated
. Case: Molded with UL-94 Class V-0 recognized
  Flame Retardant Epoxy
. Polarity: color band denotes cathode
. Packaging:12mm tape per EIA STD RS-481

SMA(DO-214AC)

.059(1.50)
.051(1.30)

.113(2.85)
.105(2.65)

.183(4.65)
.175(4.45)

.012(0.305)
.006(0.152)

.085(2.15)
.077(1.95)

.063((1.60)
.040(1.00)

.009(0.23)
.002(0.05)

Max.006(0.15)

.229(5.80)
.213(5.40)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%

Type Number	SYMBOL	SS3T10A	units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	100	V
Maximum RMS Voltage	V_{RMS}	70	V
Maximum DC blocking Voltage	V_{DC}	100	V
Maximum Average Forward Rectified Current .375"(9.5mm) lead length at T_L =90°C	$I_{F(AV)}$	3.0	A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	80	A
Maximum Forward Voltage @T_A=25°C	at 3.0A DC	$V_{F\,Max}$	0.62	V
	at 1.0A DC	$V_{F\,Type}$	0.44	
Maximum DC Reverse Current @T_A=25°C at rated DC blocking voltage @T_A=100°C	I_R	0.2 / 10	mA
Typical Junction Capacitance (Note1)	C_J	300	pF
Typical Thermal Resistance (Note2)	$R_{(JL)}$	55	℃ /W
	$R_{(JC)}$	18	
Storage Temperature	T_{STG}	-55 to +150	°C
Operating Junction Temperature	T_J	-55 to +150	°C

Note:

1. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

2. Thermal Resistance from Junction to Ambient at 0.375"(9.5mm)lead length, vertical P.C. Board Mounted

RATING AND CHARACTERISTIC CURVES (SS3T10A)
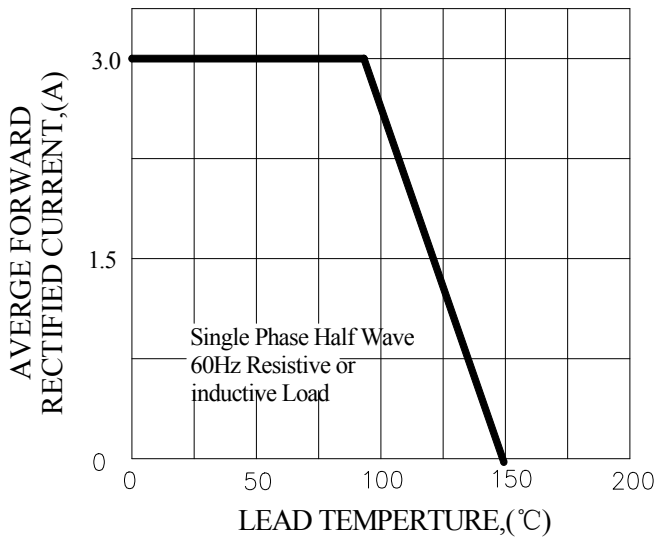
FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

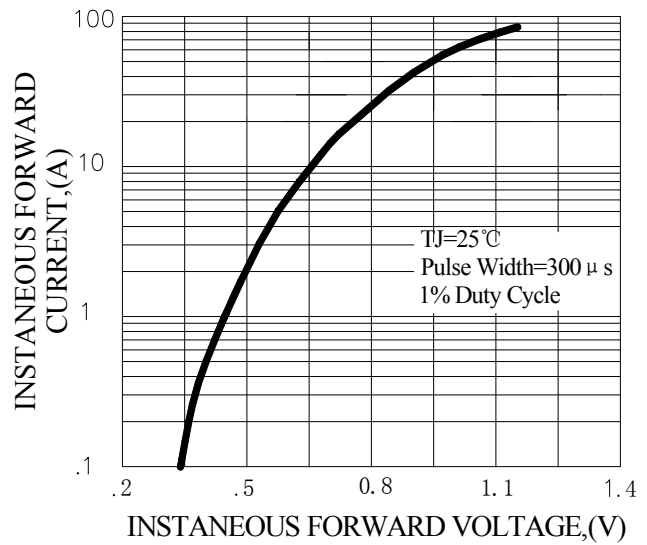FIG.2-TYPICAL INSTANTANEOUS FORWARD
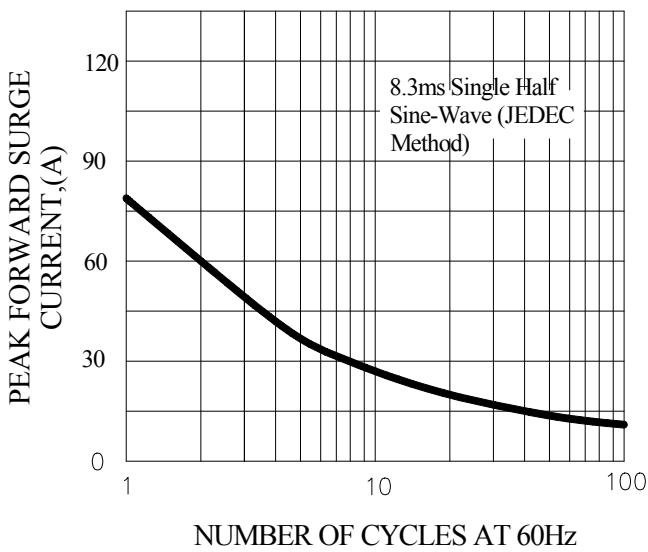CHARACTERISTICS

FIG.3-MAXIMUN NON-REPETITIVE
FORWARD SURGE CURRENT

FIG.4-TYPICAL REVERSE CHARACTERISTICS