



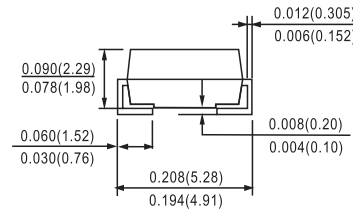
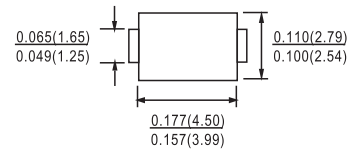
**FEATURES**

- Small power mold type
- Low forward voltage
- Low reverse current
- High reliability

**MECHANICAL DATA**

- **Case:** SMA (DO-214AC), molded plastic
- **Epoxy:** UL 94V-0 rate flame retardant
- **Lead:** Lead formed for surface mount
- **Polarity:** Color band denotes cathode end
- **Mounting Position:** Any

DO-214AC(SMA)



Dimensions in inches and (millimeters)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RM}$	25	V
Maximum Reverse Voltage	$V_R$	20	V
Maximum Average Forward Current <sup>1)</sup>	$I_{F(AV)}$	5	A
Maximum Peak Forward Surge Current (60 Hz, One Cycle)	$I_{FSM}$	70	A
Maximum Forward Voltage at 3 A	$V_F$	0.39	V
Maximum Reverse Current at 20 V	$I_R$	500	μA
Junction Temperature	$T_J$	125	°C
Storage Temperature Range	$T_S$	- 40 to + 125	°C

<sup>1)</sup>  $T_C = 90\text{ °C}$  max. mounted on epoxy board. 180° half sine wave.



TAYCHIPST

SURFACE MOUNT SCHOTTKY BARRIER DIODE

RSX501L-20

20V 5.0A

RATINGS AND CHARACTERISTIC CURVES RSX501L-20

FIG.1 - DERATING CURVE ( $I_{F(AV)}$  -  $T_C$ )

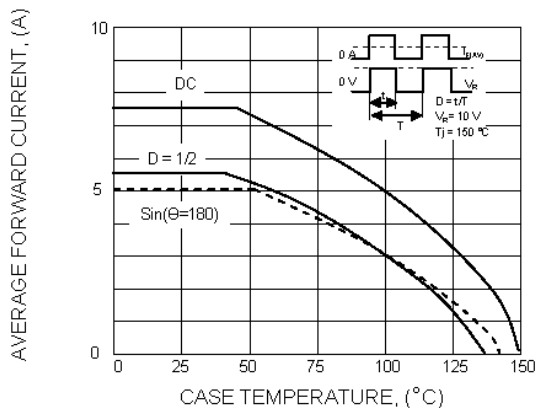


FIG.2 -  $I_{FSM}$  - CYCLE CHARACTERISTICS

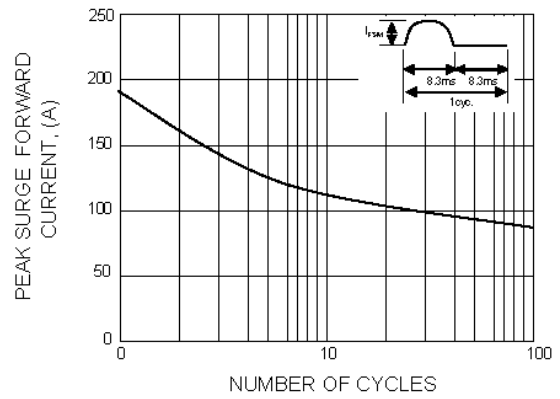


FIG.3 -  $V_F$  -  $I_F$  CHARACTERISTICS

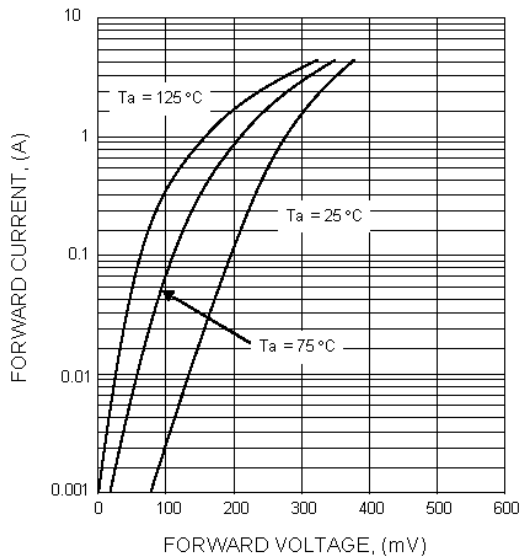


FIG.4 -  $V_R$  -  $I_R$  CHARACTERISTICS

