



TAYCHIPST

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

S5A THRU S5M

50V-1000V 5.0A

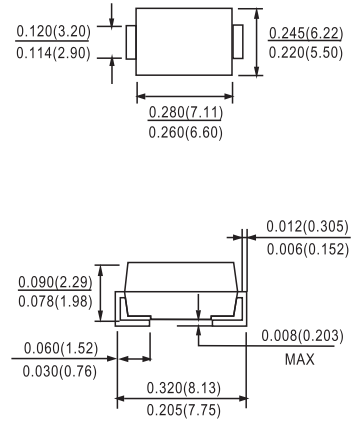
FEATURES

- Glass Passivated Die Construction
● Ideally Suited for Automatic Assembly
● Low Forward Voltage Drop
● Surge Overload Rating to 100A Peak
● Low Power Loss
● Built-in Strain Relief
● Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMC/DO-214AB, Molded Plastic
● Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
● Polarity: Cathode Band or Cathode Notch
● Marking: Type Number
● Weight: 0.21 grams (approx.)
● Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4

DO-214AB(SMC)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

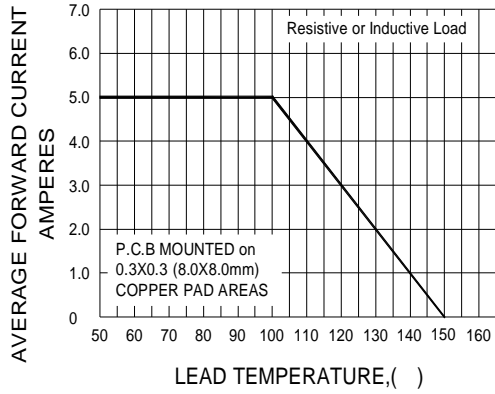
Ratings at 25 ambient temperature unless otherwise specified

Table with 10 columns: SYMBOLS, S5A, S5B, S5D, S5G, S5J, S53K, S5M, UNIT. Rows include Maximum Repetitive Peak Reverse Voltage, Maximum RMS Voltage, Maximum DC Blocking Voltage, Maximum Average Forward Rectified Current, Peak Forward Surge Current, Maximum Instantaneous Forward Voltage, Maximum DC Reverse Current, Typical Reverse Recovery Time, Typical junction capacitance, Typical Thermal Resistance, and Operating Junction and Storage Temperature Range.

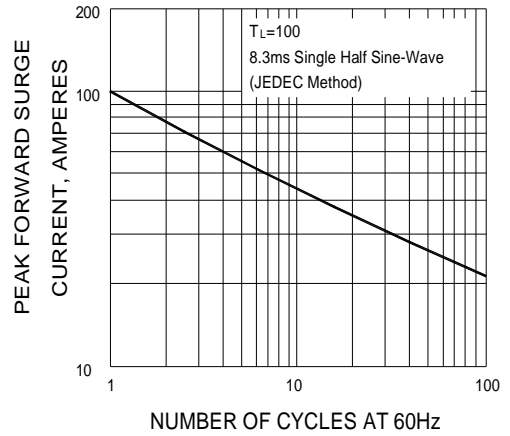
Notes:

- 1. Reverse recovery test conditions: IF=0.5A, IR=1.0A, Irr=0.25A
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts
3. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B.with 0.3x0.3" (8.0 x 8.0mm) copper pad areas.

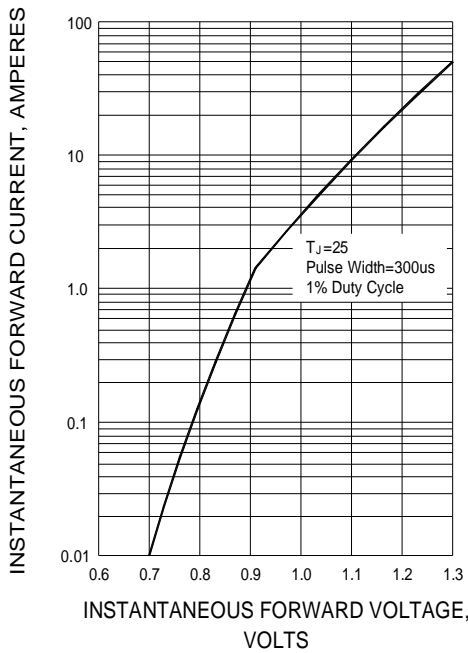
F1G.1-FORWARD CURRENT DERATING CURVE



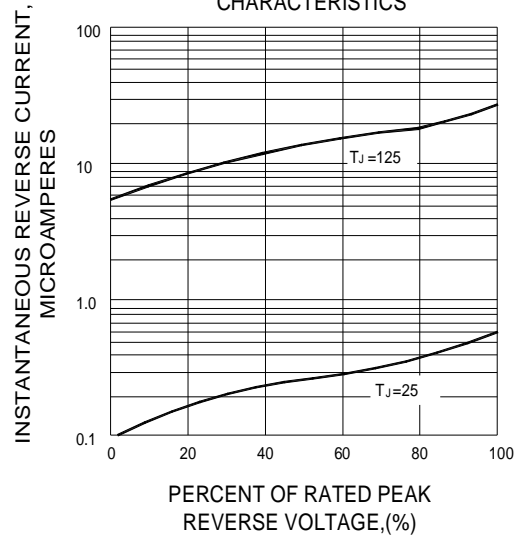
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



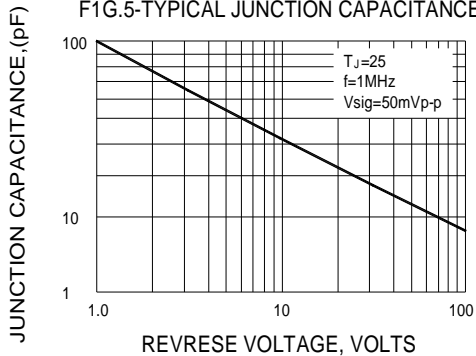
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

