

HITANO ENTERPRISE CORP.

SK32 THRU SK38

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER VOLTAGE RANGE - 20 to 80 Volts

CURRENT - 3.0 Amperes

FEATURES

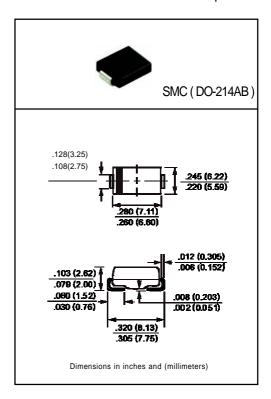
- * Ideal for surface mounted applications
- * Low leakage current
- * Glass passivated junction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rateflame retardant
- *Terminals: Solder plated solderable per MIL-STD-750, Method 2026
- * Polarity: As marked * Mounting position: Any * Weight: 0.24 gram

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%.



| | | SYMBOL | SK32 | SK33 | SK34 | SK35 | SK36 | SK38 | UNIT |
|---------------------------------------------------------------------------------------------------|-------------|-----------------|----------------|------|------|-------|------|----------------|----------------|
| Maximum Recurrent Peak Reverse Voltage | | V_{RRM} | 20 | 30 | 40 | 50 | 60 | 80 | Volts |
| Maximum RMS Voltage | | V_{RMS} | 14 | 21 | 28 | 35 | 42 | 56 | Volts |
| Maximum DC Blocking Voltage | | V _{DC} | 20 | 30 | 40 | 50 | 60 | 80 | Volts |
| Maximum Average Forward Rectified Current at Derating Lead Temperature | | Ю | 3.0 | | | | | Amps | |
| Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method) | | IFSM | 100 | | | | | Amps | |
| Maximum Instantaneous Forward Voltage at 3.0A DC | | VF | 0.55 0.70 0.89 | | 0.85 | Volts | | | |
| Maximum DC Reverse Current | @TA = 25°C | R | 2.0 | | | | | - mAmps | |
| at Rated DC Blocking Voltage | @TA = 100°C | | 20 | | | | | | |
| Typical Thermal Resistance (Note 1) | | RθJA | 55 | | | | | °C/W | |
| Typical Junction Capacitance (Note 2) | | CJ | 200 | | | | | pF | |
| Operating Temperature Range | | TJ | -55 to + 125 | | | | | | 0 _C |
| Storage Temperature Range | | Tstg | -55 to +150 | | | | | 0 _C | |

NOTES: 1. Thermal Resistance (Junction to Ambient).

- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. P.C.B Mounted with 0.4X0.4in²(10.0X10.0mm²) copper pad area.

RATING AND CHARACTERISTIC CURVES (SK32 THRU SK38)

