

EC11FS2

SURFACE MOUNT ULTRA FAST RECTIFIER

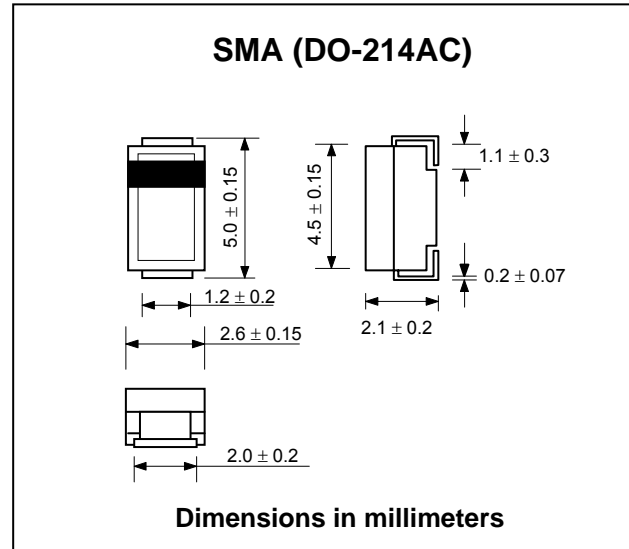
PRV : 200 Volts
Io : 1.0 Ampere

FEATURES :

- * Ultra fast recovery
- * High surge current capability
- * High efficiency
- * Low power loss
- * Low forward voltage drop
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : SMA Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Lead Formed for Surface Mount
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.067 gram



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| RATING | SYMBOL | VALUE | UNIT |
|---|---------------|---|---------------------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 200 | V |
| Maximum Non-repetitive Peak Reverse Voltage | V_{RSM} | 220 | V |
| Maximum Average Forward Current 50Hz Half Sine Wave Resistive Load | $I_{F(AV)}$ | $T_a = 25\text{ }^\circ\text{C}$ 0.81 ⁽¹⁾ | A |
| | | $T_a = 34\text{ }^\circ\text{C}$ 1.0 ⁽²⁾ | |
| Maximum Surge Forward Current 50Hz Half Sine Wave, 1cycle Non-repetitive | I_{FSM} | 20 | A |
| Maximum Peak Forward Voltage at $I_F = 1.0\text{ A}$, $T_j = 25\text{ }^\circ\text{C}$ | V_F | 0.98 | V |
| Maximum Peak Reverse Current $V_{RM} = V_{RRM}$, $T_j = 25\text{ }^\circ\text{C}$ | I_R | 10 | μA |
| Maximum Reverse Recovery Time (Note 1) $I_{FM} = 1\text{ A}$, $-di/dt = 50\text{ A}/\mu\text{s}$, $T_a = 25\text{ }^\circ\text{C}$ | T_{rr} | 30 | ns |
| Thermal Resistance, Junction to Ambient | $R_{th(j-a)}$ | 157 ⁽¹⁾ | $^\circ\text{C}/\text{W}$ |
| | | 108 ⁽²⁾ | |
| Operating Junction Temperature Range | T_j | - 40 to + 150 | $^\circ\text{C}$ |
| Storage Temperature Range | T_{STG} | - 40 to + 150 | $^\circ\text{C}$ |

Notes :

- (1) Glass Epoxy Substrate Mounted (Soldering Lands = 2x2mm, Both Sides)
- (2) Alumina Substrate Mounted (Soldering Lands = 2x2mm, Both Sides)