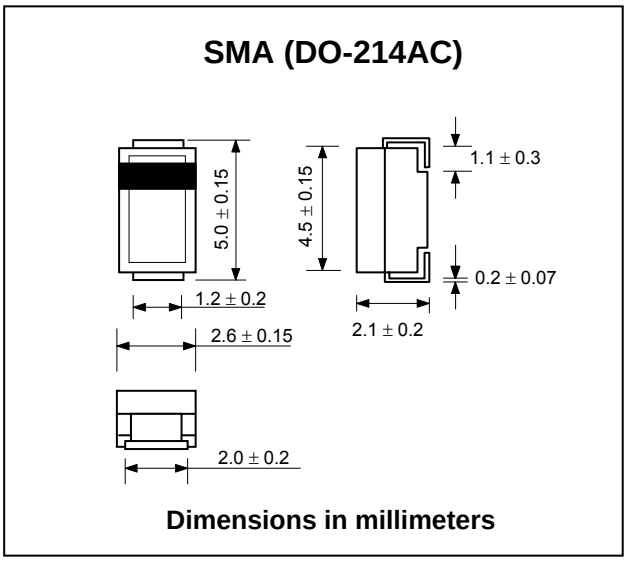
EC11FS2

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 Ta = 25 °C	$I_{F(AV)}$	0.81 (1)	A
50Hz Half Sine Wave Resistive Load Ta = 34 °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 A, Tj = 25 °C	V_F	0.98	V
Maximum Peak Reverse Current $V_{RM} = V_{RRM}$, Tj = 25 °C	I_R	10	µA
Maximum Reverse Recovery Time (Note 1) I_{FM} = 1A, -di/dt = 50A/µs, Ta = 25 °C	Trr	30	ns
Thermal Resistance, Junction to Ambient	$Rth_{(j-a)}$	157 (1)	°C/W
		108 (2)	
Operating Junction Temperature Range	T_J	- 40 to + 150	°C
Storage Temperature Range	T_{STG}	- 40 to + 150	°C

Notes :

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

(2) Alumina Substrate Mounted (Soldering Lands = 2x2mm, Both Sides)