



Certificate Number: Q10561

Certificate Number: E17276

MURA130, MURA140

PRV : 300 - 400 Volts
Io : 1.0 Ampere

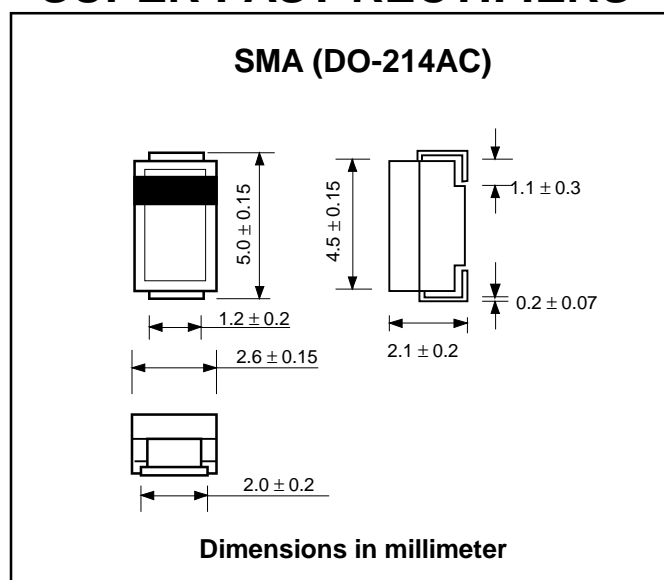
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Super fast recovery time
- * **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

SURFACE MOUNT SUPER FAST RECTIFIERS



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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 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%.

RATING	SYMBOL	MURA130	MURA140	UNIT
Maximum Peak Repetitive Reverse Voltage	VRRM	300	400	V
Maximum Working Peak Reverse Voltage	VRWM	300	400	V
Maximum DC Blocking Voltage	VDC	300	400	V
Maximum Average Forward Current @ $T_L = 150\text{ }^\circ\text{C}$	IF(AV)	1.0		V
Maximum Non-Repetitive Peak Surge Current (Surge Applied at Rate Load Conditions Halfwave, Single Phase, 60 Hz)	IFSM	35		A
Maximum Instantaneous Forward Voltage at $I_F = 1.0\text{ A}$ (Note 1)	V _F	1.1 (T _J = 25°C)	0.8 (T _J = 150°C)	V
Maximum Instantaneous Reverse Current (Note 1) (Rated dc Voltage)	I _R I _R (H)	5.0 (T _J = 25°C) 150 (T _J = 150°C)		μA
Thermal Resistance, Junction to Ambient (Note 2)	R _{θJA}	216		°C/W
Maximum Reverse Recovery Time (I _F =1.0A, di/dt = 50A/μs)	T _{rr}	65		ns
Operating Junction Temperature Range	T _J	- 65 to + 175		°C

Notes :

(1) Pulse Test: Pulse Width = 300 μs, Duty Cycle ≤ 2.0 %.

(2) Rating Applies when surface mounted on the minimum pad size recommended, PC Board FR-4.

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RATING AND CHARACTERISTIC CURVES (MURA130, MURA140)

**FIG.1 - CURRENT DERATING, AMBIENT
(FR-4 BOARD WITH MINIMUM PAD)**

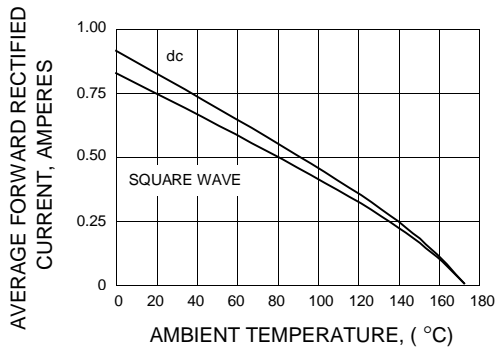


FIG.2 - MAXIMUM JUNCTION CAPACITANCE

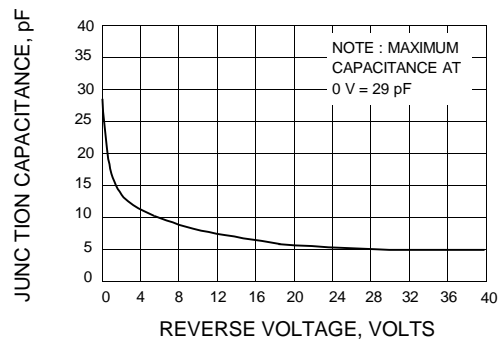


FIG.3 - MAXIMUM INSTANTANEOUS FORWARD VOLTAGE

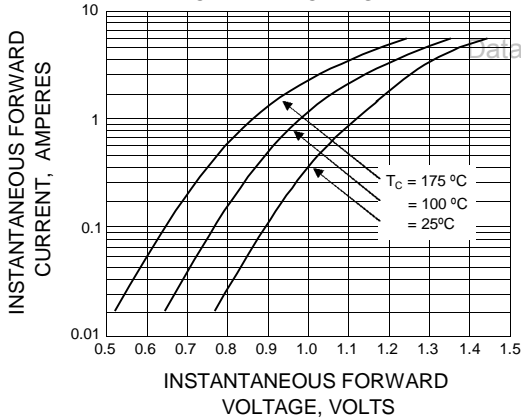


FIG. 4 - MAXIMUM REVERSE CURRENT

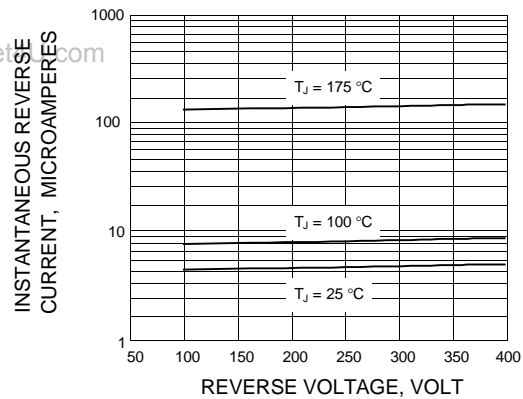


FIG. 5 - POWER DISSIPATION

