

FML0220L THRU FML0240L

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 0.2 Ampere

FEATURES

- * Low switching noise
- * Low forward voltage drop
- * High current capability
- * High switching capability
- * High surge capabitity
- * High reliability

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: Device has UL flammability classification 94V-O
- * Lead: MIL-STD-202E method 208C guaranteed
- * Metallurgically bonded construction
- * Mounting position: Any
- * Weight: 0.09 gram

SMAL 3.10 (2.79) 3.007 (1.70) 3.007 (1.70) 3.008 (2.18) 3.007 (1.70) 3.008 (2.18) 3.008 (1.70

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

MAXIMUM RATINGS (@ TA=25 °C unless otherwise noted)

RATINGS	SYMBOL	FML0220L	FML0230L	FML0240L	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	20	30	40	Volts
Maximum RMS Voltage	V _{RMS}	14	21	28	Volts
Maximum DC Blocking Voltage	V _{DC}	20	30	40	Volts
Maximum Average Forward Rectified Current at T _A = 110°C	Io	0.2			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	60			Amps
Typical Thermal Resistance (Note 1)	R _{0JA}	85			°C/W
Typical Thermal Resistance (Note 1)	RøJL	25			°C/W
Typical Junction Capacitance (Note 2)	CJ	110			pF
Operating Temperature Range	TJ	150			٥C
Storage Temperature Range	T _{STG}	-55 to + 150			

ELECTRICAL CHARACTERISTICS(@TA=25 °C unless otherwise noted)

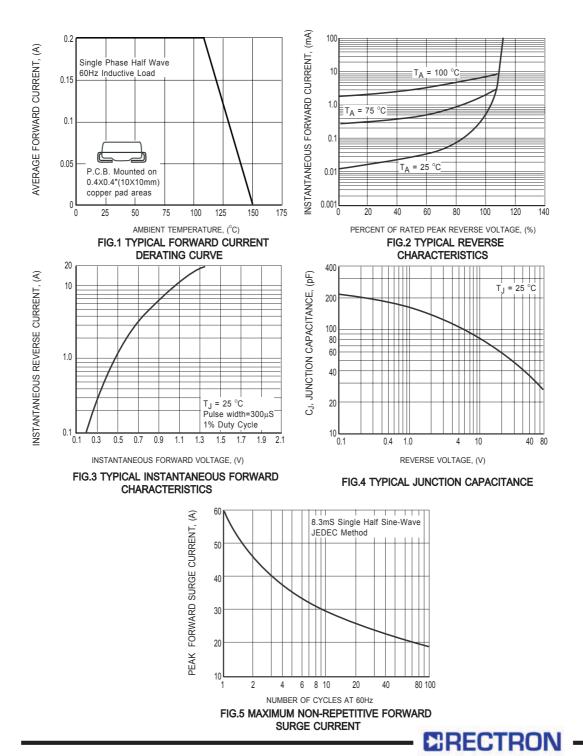
ELECTRICAL CHARACTERISTICS (EITH 20 C UNICOS CINCINICE NOCCO)									
CHARACTERISTICS		SYMBOL	FML0220L	FML0230L	FML0240L	UNITS			
Maximum Instantaneous Forward Voltage at 0.2A DC		V _F	.28			Volts			
Maximum Average Reverse Current	@T _A = 25°C	1-	1.0			mΑ			
at Rated DC Blocking Voltage	@T _A = 100°C	IR.		10		mΑ			

NOTES: 1. Thermal Resistance: Mounted on PCB.

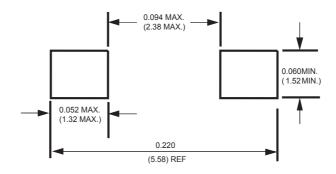
- 2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.
- 3. Also available in SMBL.
- 4. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2006-11

RATING AND CHARACTERISTICS CURVES (FML0220L THRU FML0240L)



Mounting Pad Layout



Dimensions in inches and (millimeters)



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