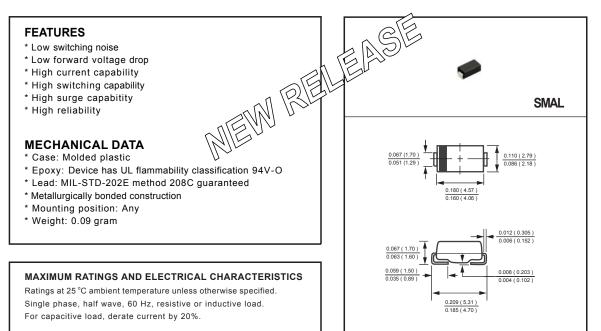




SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

VOLTAGE RANGE 20 to 40 Volts CURRENT 0.5 Ampere



Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	FML0520L	FML0530L	FML0540L	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	VDC	20	30	40	Volts
Maximum Average Forward Rectified Current at T _A = 100°C	I ₀	0.5			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 _{θJA}	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			٥C

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

CHARACTERISTICS		SYMBOL	FML0520L	FML0530L	FML0540L	UNITS
Maximum Instantaneous Forward Voltage at 0.5A DC		VF	0.3			Volts
Maximum Average Reverse Current	@T _A = 25°C	I _R		1.0		mA
at Rated DC Blocking Voltage	@T _A = 100°C			10		mA

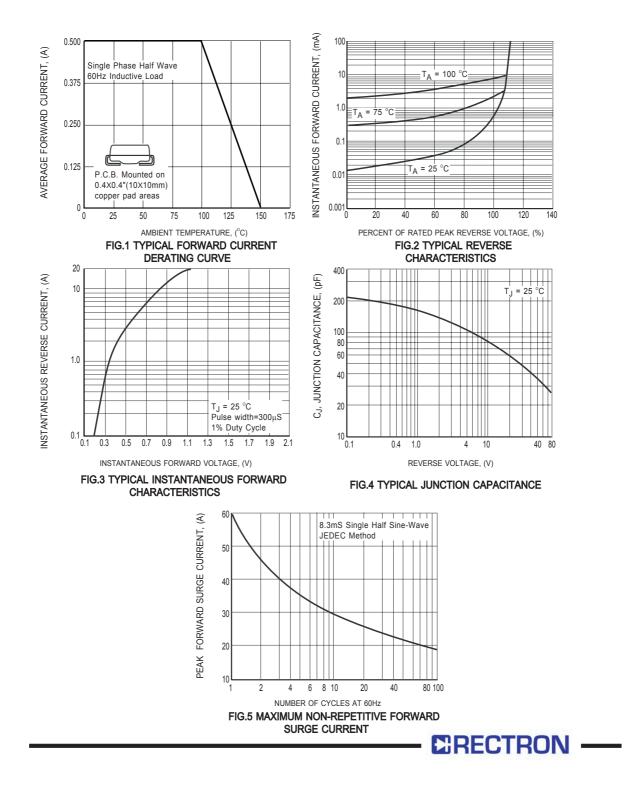
NOTES : 1. Thermal Resistance : Mounted on PCB.

2. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

3. Also available in SMBL.

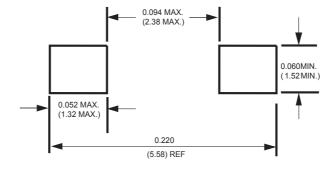
4. "Fully ROHS compliant", "100% Sn plating (Pb-free)".

2006-11



RATING AND CHARACTERISTICS CURVES (FML0520L THRU FML0540L)

Mounting Pad Layout



Dimensions in inches and (millimeters)



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