



**FM5820AL
THRU
FM5822AL**

Pb Free Product

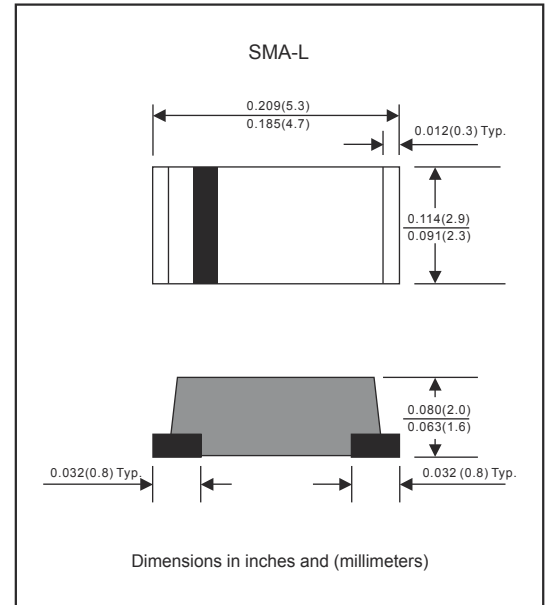
**3.0A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS -20V- 40V
SMA-L PACKAGE**

FEATURES

- * Batch process design, excellent power dissipation offers better reverse leakage current and thermal resistance.
- * Low profile surface mounted application in order to optimize board space.
- * High current capability, low forward voltage drop.
- * Ultra high-speed switching.
- * Lead-free parts meet environmental standards of MIL-STD-19500/228
- * RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"

MECHANICAL DATA

Case: Molded plastic, DO-214AC / SMA-L
Epoxy: UL 94V-O rate flame retardant
Terminals: Solder plated, solderable per MIL-STD-750, Method 2026.
Mounting position: Any
Weight: Approximated 0.05 gram.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

RATINGS	SYMBOL	FM5820AL	FM5821AL	FM5822AL	UNIT
Marking Code		SK32	SK33	SK34	
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	I _O	3.0			Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	80			Amps
Typical Thermal Resistance (Note 2)	R _{θJA}	80			°C/W
Typical Junction Capacitance (Note 1)	C _J	250			pF
Operating Temperature Range	T _J	-55 to +125			°C
Storage Temperature Range	T _{STG}	-55 to +150			°C

CHARACTERISTICS	SYMBOL	FM5820AL	FM5821AL	FM5822AL	UNIT
Maximum Forward Voltage at 3.0A DC	V _F	0.475	0.500	0.525	Volts
Maximum Average Reverse Current at Rated DC Blocking Voltage	I _R	@T _J =25°C	0.5		mAmps
		@T _J =100°C	20		

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance From Junction to Ambient



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RATING AND CHARACTERISTIC CURVES

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

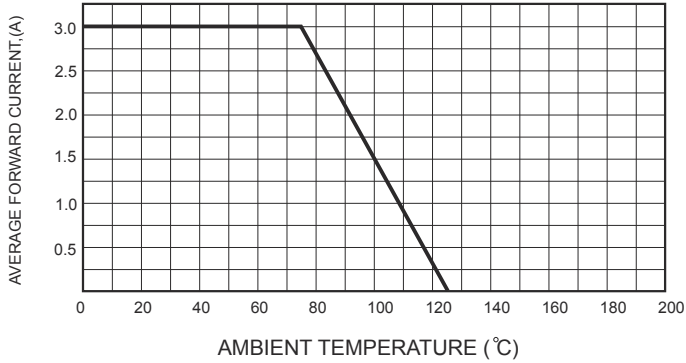


FIG.2-TYPICAL FORWARD CHARACTERISTICS

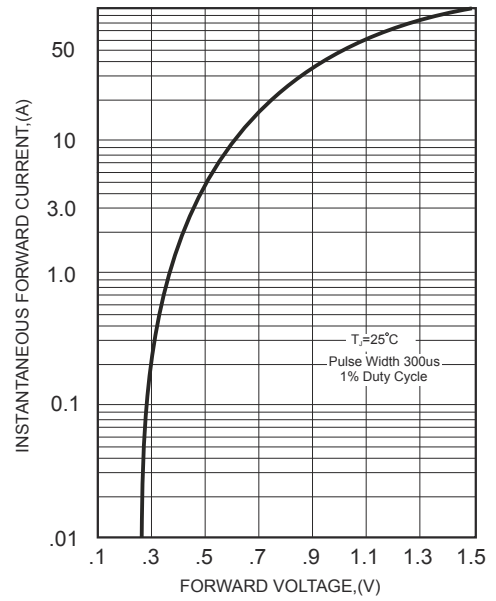


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

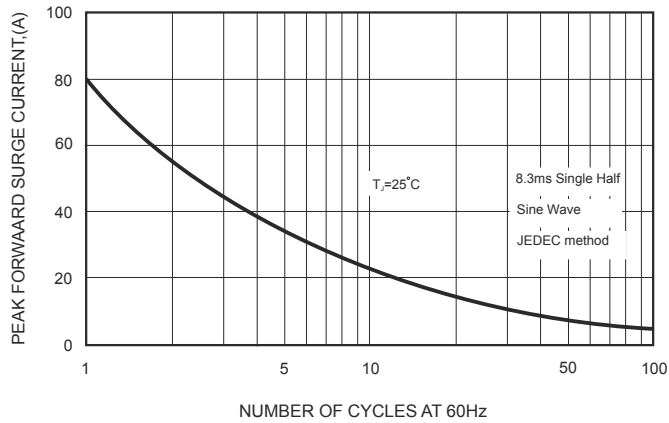


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

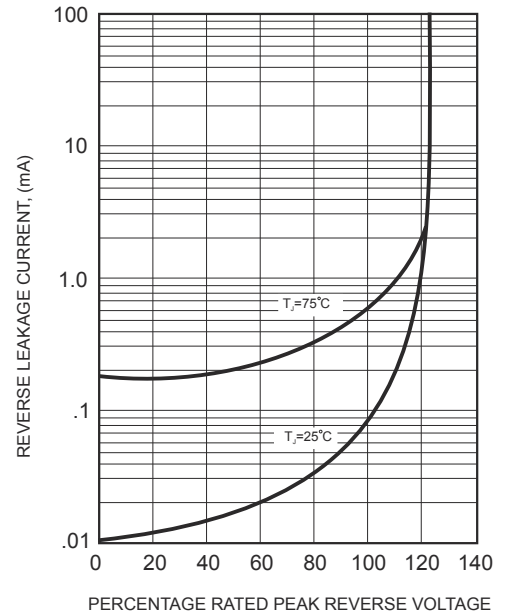


FIG.4-TYPICAL JUNCTION CAPACITANCE

