

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER
VOLTAGE 40 Volts CURRENT 3.0 Ampere
FEATURES

- * Low power loss, high efficiency
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High speed switching
- * High surge capability
- * High reliability
- * Guard ring construction on die
- * Anti-ESD
- * P/N suffix V means AEC-Q101 qualified, e.g.: FML340AV
- * P/N suffix V means Halogen-free

MECHANICAL DATA

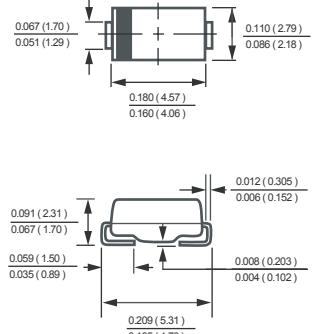
- * Epoxy: Device has UL flammability classification 94V-O
- * Mounting position: Any
- * Weight: 0.25 gram (Approx.)
- * Flat lead frame

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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%.


DO-214AC


Dimensions in inches and (millimeters)

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

RATINGS	SYMBOL	FML340A	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	Volts
Maximum RMS Voltage	V _{RMS}	28	Volts
Maximum DC Blocking Voltage	V _{DC}	40	Volts
Maximum Average Forward Rectified Current @ T _L =100°C	I _O	3.0	Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	100	Amps
Current Squared Time	I ² t	41.5	A ² Sec
Thermal Resistance Junction to Ambient	R _{θJA}	55	°C/W
Thermal Resistance Junction to Soldering	R _{θJS}	20	°C/W
Operating Temperature Range	T _J	-55 to + 125	°C
Storage Temperature Range	T _{STG}	-55 to + 150	°C
Total Capacitance	C _T	75	pF

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

CHARACTERISTICS	SYMBOL	FML340A	UNITS
Maximum Instantaneous Forward Voltage at 3.0A DC	V _F	0.45	Volts
Maximum Average Reverse Current @ TA = 25°C at Rated DC Blocking Voltage	I _R	0.1	mAmps
@ TA = 150°C		10	

NOTES : 1. Measured at 1 MHz and applied reverse voltage of 10 volts.

2. "ROHS compliant"

3. Available for IR reflow & wave soldering

 2018-07
 REV: A

RATING AND CHARACTERISTICS CURVES (FML340A)

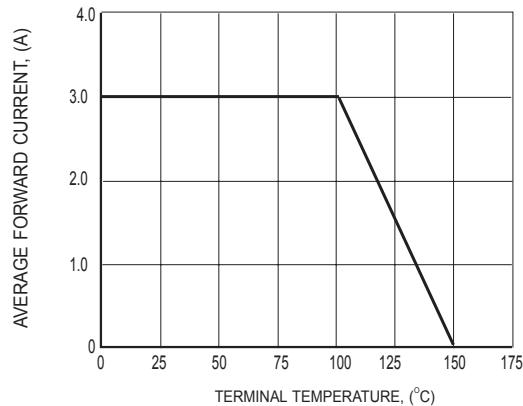


FIG.1 TYPICAL FORWARD CURRENT DERATING CURVE

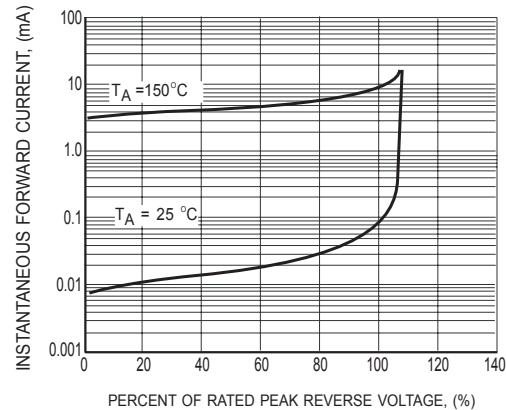


FIG.2 MAXIMUM REVERSE CHARACTERISTICS

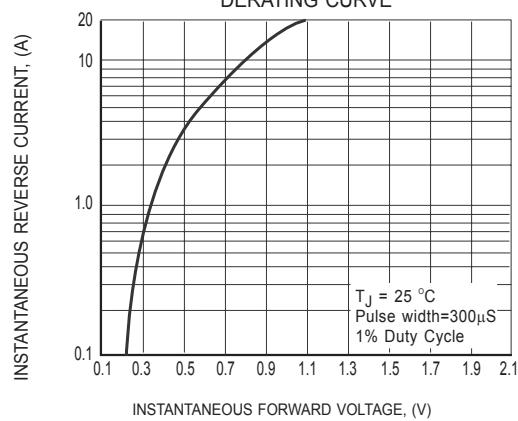


FIG.3 MAXIMUM INSTANTANEOUS FORWARD CHARACTERISTICS

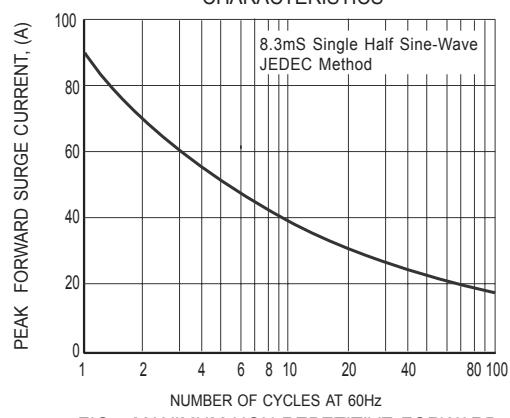
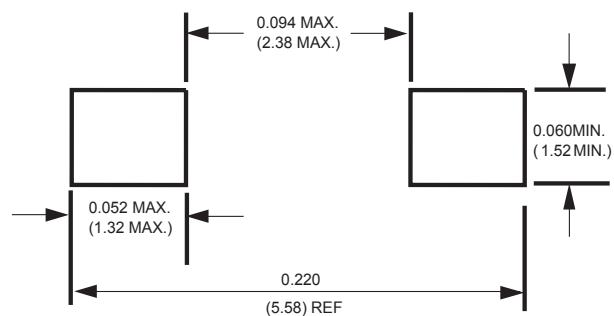


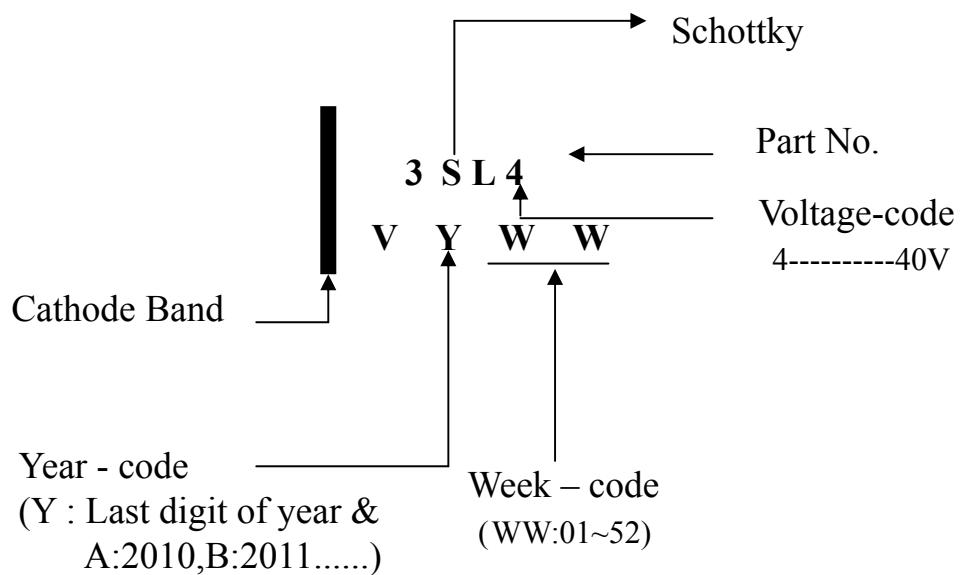
FIG.4 MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

Mounting Pad Layout



Dimensions in inches and (millimeters)

Marking Description



PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMA	-W	7,500	15,000	---	---	330	360*355*360	120,000	15.2

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SMA	-T	2,000	8,000	---	---	178	390*205*310	64,000	7.8

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