LOW FORWARD VOLTAGE SCHOTTKY BARRIER RECTIFIER

SRL3030P THRU SRL3060P

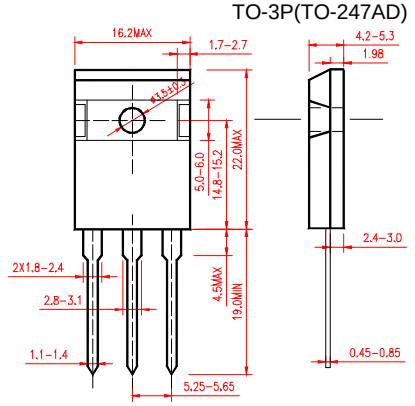
VOLTAGE RANGE **30 t o 60 Volts**

CURRENT **30.0 Amperes**

FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protechion
- Low Power Loss, High efficiency
- High Surge Capability
- High Current capacity and Low Forward Voltage Drop
- For use in low voltage high frequency inverters, Free wheeling, and polarity protection applications
- Plastic Material has UL Flammability Classification 94V-0

TO-3P(TO-247AD)



Dimensions in inches and (millimeters)

MECHANICAL DATA

- Case: TO-3P(TO-247AD) molded plastic
- Terminals: Plated Lead solderable per MIL-STD-202 Method 208
- Polarity: See Diagram
- Weight: 5.6 grams (approx)
- Mounting Position: Any
- Marking: Type Number

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

- Single Phase, half wave, 60Hz, resistive or inductive load
- For capacitive load derate current by 20%

	SYMBOLS	SRL 3030P	SRL 3035P	SRL 3040P	SRL 3045P	SRL 3050P	SRL 3060P	UNIT
Peak Repetitive Reverse Voltage	V_{RRM}	30	35	40	45	50	60	V
Working Peak Reverse Voltage	V_{RWM}							
DC Blocking Voltage	V_R							
RMS Reverse Voltage	$V_{R(RMS)}$	21	25	28	32	35	42	V
Average Rectified Output Current (Note 1)@T_C=95℃	I_O	30.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)	I_{FSM}	275						A
Forward Voltage Drop @I_F=15A,T_C=25℃	V_{FM}	0.55					0.65	V
Peak Reverse Current at Rated DC Blocking Voltage T_C = 25℃	I_{RM}	1.0						mA
Peak Reverse Current at Rated DC Blocking Voltage T_C = 100℃		75						
Typical Junction Capacitance(Note2)	C_j	650						pF
Typical Resistance Junction to case(Note1)	$R_{\theta JC}$	1.5						℃/W
Operating and Storage Temperature Range	T_J T_{STG}	(-55 to +150)						℃

Notes:

1. Thermal Resistance Junction to case mounted on heatsink
2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC

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CURRENT	**30.0 Amperes**

RATINGE AND CHARACTERISTIC CURVES SRL3030P THRU SRL3060P

FIG.1-FORWARD CURRENT DERATING CURVE

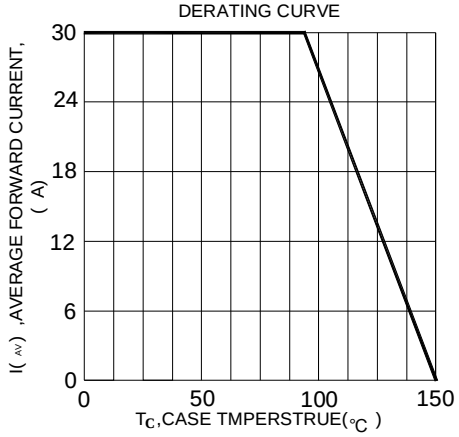


FIG.2-TYPICAL FORWARD CHARACTERISTICS

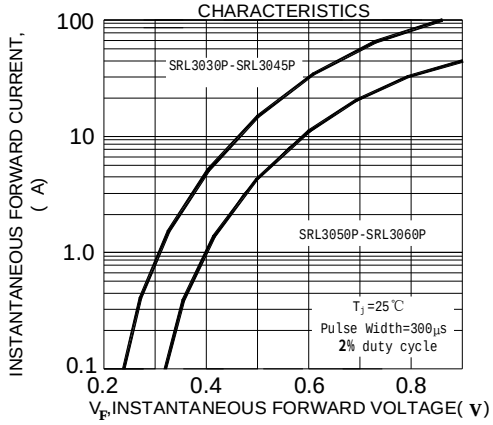


FIG.3 MAX NON-REPETITIVE SURGE CURRENT

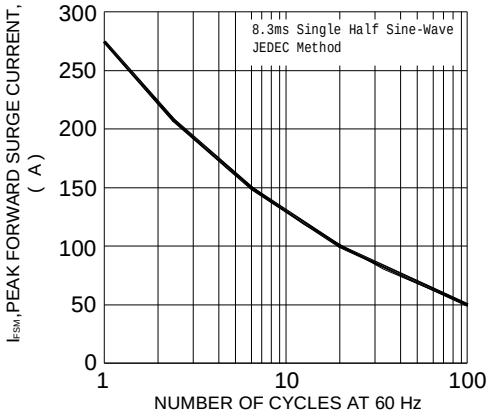


FIG4 TYPICAL JUNCTION CAPACITANCE PER ELEMENT

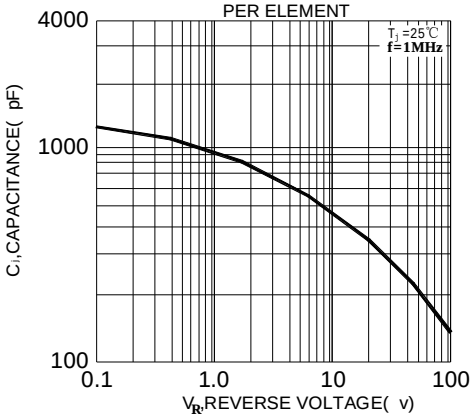
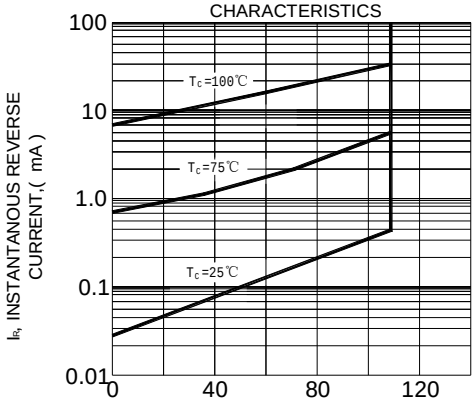


FIG.5-TYPICAL REVERSE CHARACTERISTICS



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