



LOW FORWARD VOLTAGE SCHOTTKY BARRIER RECTIFIER

SRBL1030 THRU SRBL1060

VOLTAGE RANGE

30 to 60 Volts

CURRENT

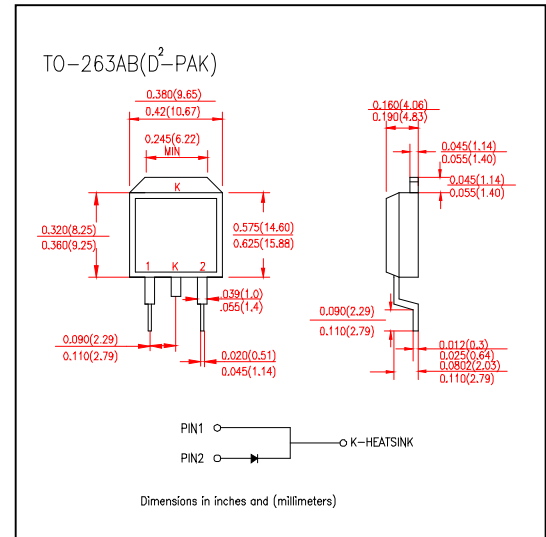
10.0 Ampere

FEATURES

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- 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

MECHANICAL DATA

- Case: D²-PAK molded plastic
- Terminals: Plated Lead solderable per MIL-STD-202 Method 208
- Polarity: See Diagram
- Weight: 1.7 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	SRBL 1030	SRBL 1035	SRBL 1040	SRBL 1045	SRBL 1050	SRBL 1060	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	10.0						A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method)		I _{FSM}	250						A
Forward Voltage Drop @I _F =10A,T _C =25℃		V _{FM}	0.60				0.75		V
Peak Reverse Current at Rated DC Blocking Voltage	T _C = 25℃	I _{RM}	1.0						mA
	T _C = 100℃		50						
Typical Junction Capacitance(Note2)		C _j	700						pF
Typical Resistance Junction to case(Note1)		R _{θJC}	3.5						℃/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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RATINGE AND CHARACTERISTIC CURVES SRBL1030 THRU SRBL1060

FIG.1-FORWARD CURRENT
DERATING CURVE

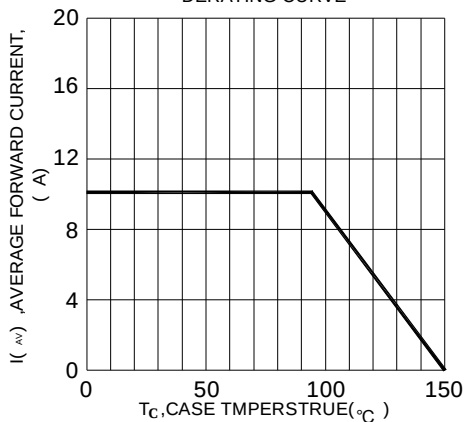


FIG.2-TYPICAL FORWARD
CHARACTERISTICS

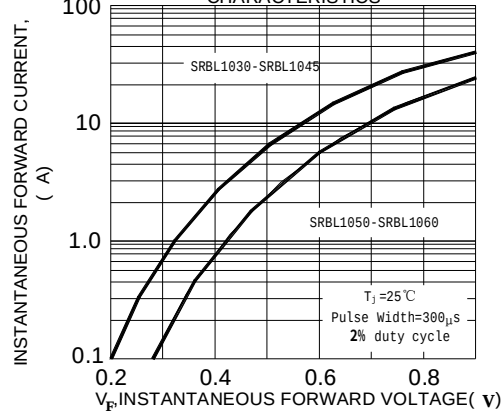


FIG.3 MAX NON-REPETITIVE SURGE CURRENT

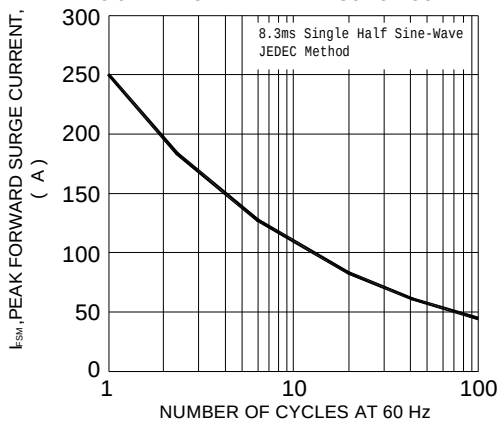


FIG.4 TYPICAL JUNCTION CAPACITANCE
PER ELEMENT

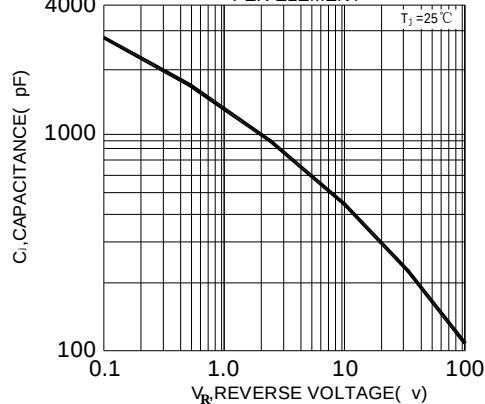


FIG.5-TYPICAL REVERSE
CHARACTERISTICS

