

SRB4030 THRU SRB40200

GW

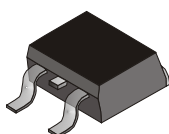
40.0 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

FEATURES

- * Low forward voltage drop
- * High current capability
- * High reliability
- * High surge current capability
- * Epitaxial construction

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-0 rate flame retardant
- * Lead: Lead solderable per MIL-STD-202, method 208 guaranteed
- * Polarity: As Marked
- * Mounting position: Any



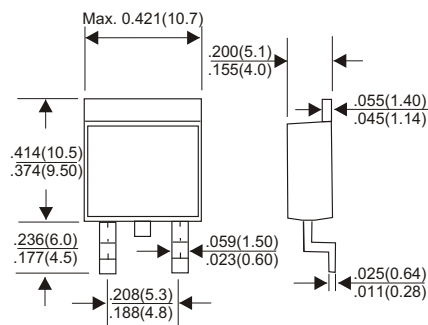
VOLTAGE RANGE

30 to 200 Volts

CURRENT

40.0 Amperes

D2PAK



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	SRB4030	SRB4045	SRB4060	SRB40100	SRB40150	SRB40200	UNITS
Maximum Recurrent Peak Reverse Voltage	30	45	60	100	150	200	V
Maximum RMS Voltage	21	31.5	42	70	105	140	V
Maximum DC Blocking Voltage	30	45	60	100	150	200	V
Maximum Average Forward Rectified Current							
See Fig.1	40.0						A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	380						A
Maximum Instantaneous Forward Voltage per Leg at 20A	0.65	0.75	0.85	0.95			V
Maximum DC Reverse Current Ta=25℃	0.5			0.05			mA
at Rated DC Blocking Voltage Ta=125℃	50			10			mA
Typical Thermal Resistance RθJC (Note 1)	2.5						℃/W
Operating Temperature Range Tj	-55 — +125		-55 — +150				℃
Storage Temperature Range Tstg	-55 — +150						℃

NOTES:

1. Thermal Resistance Junction to Case.

RATING AND CHARACTERISTIC CURVES (SRB4030 THRU SRB40200)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

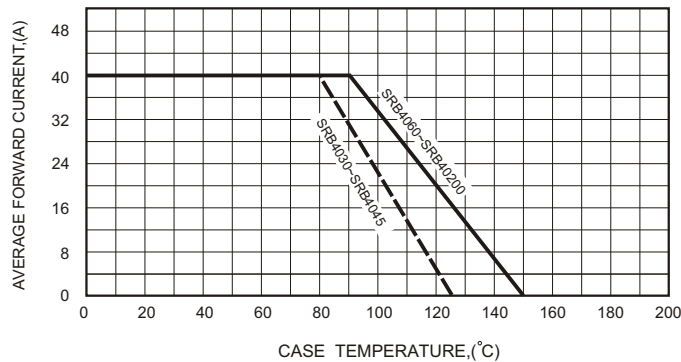


FIG.2-TYPICAL FORWARD CHARACTERISTICS

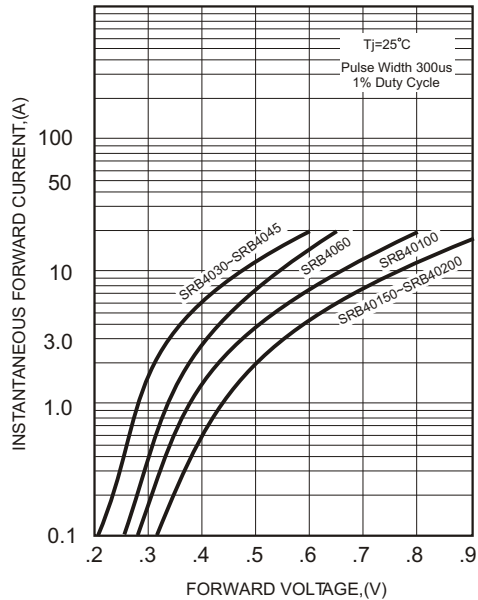


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

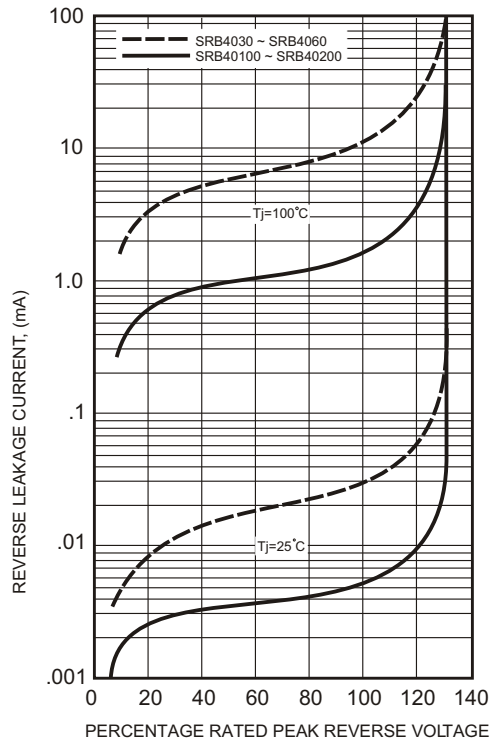


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

