

ULTRA FAST RECOVERY RECTIFIERS

MAXIMUM RATINGS PER DIODE

PARAMETER	SYMBOL		UNITS
WORKING PEAK REVERSE VOLTAGE	VRRM	100	V
AVERAGE FORWARD CURRENT	IF(AV)	30	A
PEAK ONE CYCLE NON-REPETITIVE SURGE CURRENT	IFSM	150	A
OPERATING JUNCTION TEMPERATURE RANGE	TJ	+150	°C
STORAGE TEMPERATURE RANGE	Tstg	-55 TO +175	°C
THERMAL RESISTANCE JUNCTION TO CASE	RtJc	1.0	°C/W

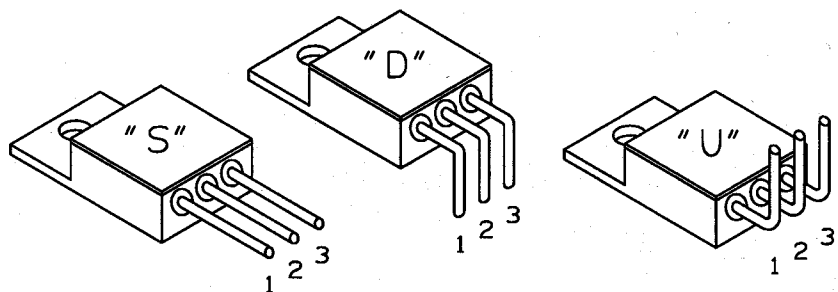
100V, 30A, 50ns

SDR30100 JAA
SDR30100 JAB

FEATURES

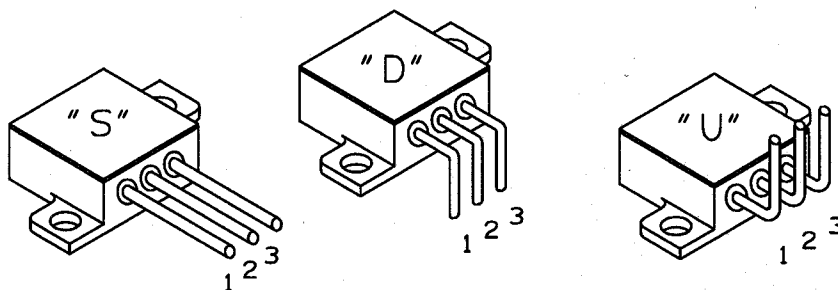
- RUGGED PACKAGE
- HI-REL CONSTRUCTION
- CERAMIC EYELETS
- LEAD BENDING OPTIONS
- COPPER CORED 52 ALLOY PINS
- LOW IR LOSSES
- LOW THERMAL RESISTANCE
- OPTIONAL MIL-S-19500 SCREENING

STANDARD BEND CONFIGURATIONS JAA



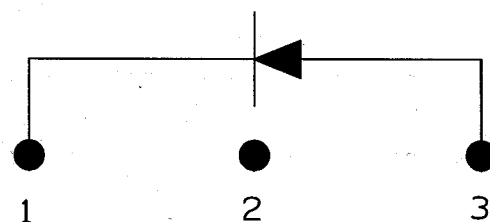
(CUSTOM BEND OPTIONS AVAILABLE)

STANDARD BEND CONFIGURATIONS JAB



(CUSTOM BEND OPTIONS AVAILABLE)

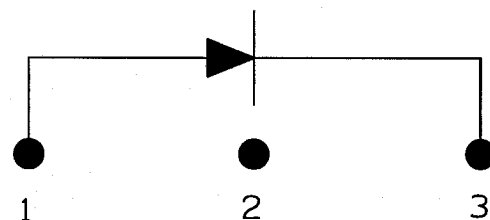
"J" SCHEMATIC



TERMINAL CONNECTIONS

- 1 = CATHODE
2 = NO CONN.
3 = ANODE
CASE = NO CONNECTION

"N" SCHEMATIC



TERMINAL CONNECTIONS

- 1 = ANODE
2 = NO CONN.
3 = CATHODE
CASE = NO CONNECTION

ELECTRICAL CHARACTERISTICS $T_c = 25^\circ\text{C}$ (UNLESS OTHERWISE SPECIFIED)

PARAMETER	SYMBOL	TEST CONDITIONS		UNITS
MAX. PEAK FORWARD VOLTAGE ①	VF	TJ=25°C IFM=30A	1.3	V
MAX. PEAK REVERSE CURRENT ①	IRM	TJ=25°C	50	μA
		TJ=125°C VRWM=100V	5.0	mA
REVERSE RECOVERY	trr	IF=0.5A, IR=1A IREC=0.25A	50	ns

(1) PULSE TEST: PULSE WIDTH 300μS, DUTY CYCLE 2%.