

PRODUCT CATALOG

Soliton DEVICES, INC.

ULTRA FAST RECOVERY RECTIFIERS

1177 BLUE HERON BLVD. • RIVIERA BEACH, FLORIDA 33404
TEL: (407) 848-4311 • TLX: 51-3435 • FAX: (407) 863-5946

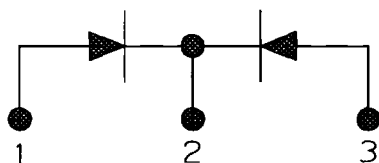
200V, 12A, 35ns

SDR12200 JAA
SDR12200 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

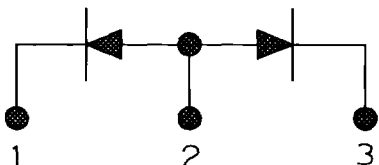
"K" SCHEMATIC



TERMINAL CONNECTIONS

- 1 = ANODE
2 = COMMON
3 = ANODE

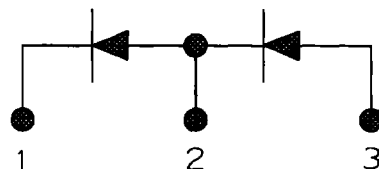
"L" SCHEMATIC



TERMINAL CONNECTIONS

- 1 = CATHODE
2 = COMMON
3 = CATHODE

"M" SCHEMATIC



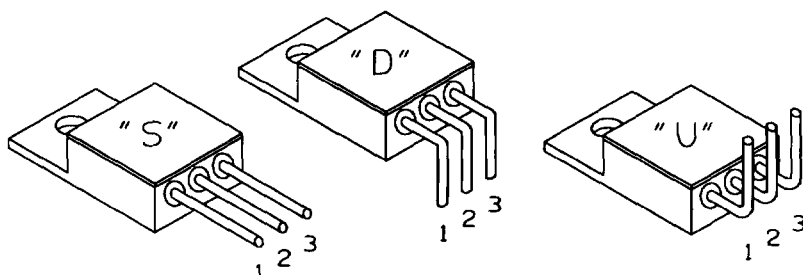
TERMINAL CONNECTIONS

- 1 = CATHODE
2 = COMMON
3 = ANODE

MAXIMUM RATINGS PER DIODE

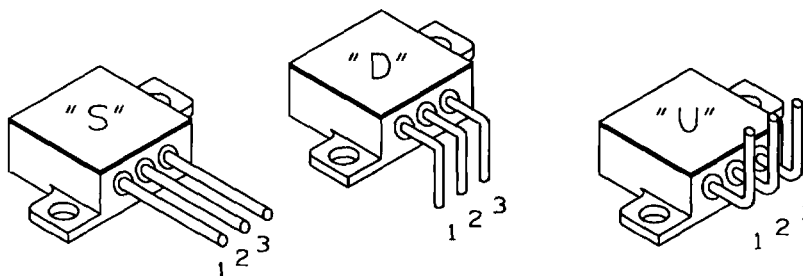
PARAMETER	SYMBOL		UNITS
WORKING PEAK REVERSE VOLTAGE	VRRM	200	V
AVERAGE FORWARD CURRENT	IF(AV)	10	A
PEAK ONE CYCLE NON-REPETITIVE SURGE CURRENT	IFSM	150	A
PEAK REPETITIVE REVERSE CURRENT	IRRM	2.2	A
OPERATING JUNCTION TEMPERATURE RANGE	TJ	+150	°C
STORAGE TEMPERATURE RANGE	Tstg	-55 TO +175	°C
THERMAL RESISTANCE JUNCTION TO CASE	RθJc	2.5	°C/W

STANDARD BEND CONFIGURATIONS JAA



(CUSTOM BEND OPTIONS AVAILABLE)

STANDARD BEND CONFIGURATIONS JAB



(CUSTOM BEND OPTIONS AVAILABLE)

ELECTRICAL CHARACTERISTICS T_c = 25°C (UNLESS OTHERWISE SPECIFIED)

PARAMETER	SYMBOL	TEST CONDITIONS		UNITS
MAX. PEAK FORWARD VOLTAGE ①	VF	TJ=25°C IFM=12.0A	1.5	V
MAX. PEAK REVERSE CURRENT ①	IRM	TJ=25°C VRWM=200V	70	μA
		TJ=125°C	3.0	mA
REVERSE RECOVERY	trr	IF=0.5A, IR=1A IREC=0.25A	35	ns

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