ULTRA FAST RECOVERY RECTIFIERS

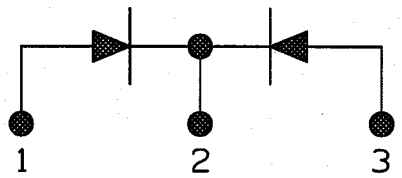
400V, 30A, 50ns

SDR30400 JEA
SDR30400 JEB
SDR30400 JEC
SDR30400 JED

FEATURES

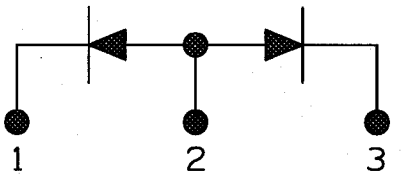
- RUGGED PACKAGE
- HI-REL CONSTRUCTION
- CERAMIC EYELETS
- LEAD BENDING OPTIONS
- COPPER CORED 52 ALLOY PINS
- LOW IR LOSSES
- LOW THERMAL RESISTANCE
- OPTIONAL MIL-STD-883 SCREENING

"K" SCHEMATIC



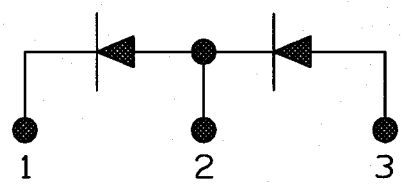
TERMINAL CONNECTIONS
1 = ANODE
2 = COMMON
3 = ANODE

"L" SCHEMATIC



TERMINAL CONNECTIONS
1 = CATHODE
2 = COMMON
3 = CATHODE

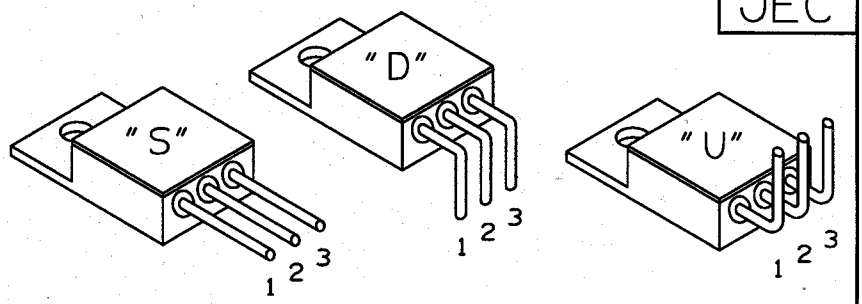
"M" SCHEMATIC



TERMINAL CONNECTIONS
1 = CATHODE
2 = COMMON
3 = ANODE

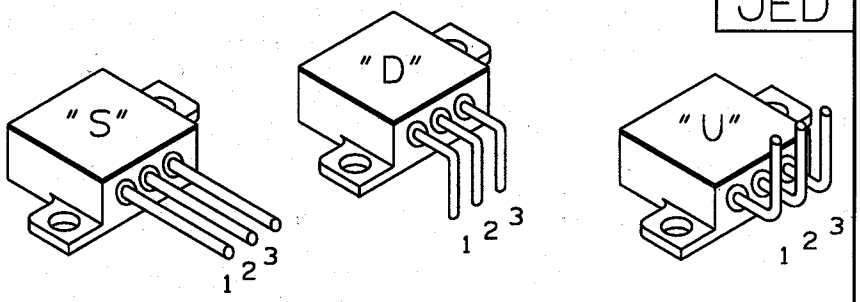
MAXIMUM RATINGS PER DIODE			
PARAMETER	SYMBOL		UNITS
WORKING PEAK REVERSE VOLTAGE	VRRM	400	V
AVERAGE FORWARD CURRENT	IF(AV)	30	A
PEAK ONE CYCLE NON-REPETITIVE, SURGE CURRRENT	IFSM	150	A
PEAK REPETITIVE REVERSE CURRENT	IRRM	4.0	A
OPERATING JUNCTION TEMPERATURE RANGE	TJ	-65 TO +150	°C
STORAGE TEMPERATURE RANGE	Tstg	-65 TO +150	°C
THERMAL RESISTANCE JUNCTION TO CASE	RtJc	1.0	°C/W

STANDARD BEND CONFIGURATIONS — JEA JEC



(CUSTOM BEND OPTIONS AVAILABLE)

STANDARD BEND CONFIGURATIONS — JEB JED



(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=15A	1.25	V
		TJ=25°C, IFM=30A	1.50	V
MAX. PEAK REVERSE CURRENT ①	IRM	TJ=25°C, VRWM=200V	200	µA
		TJ=125°C, VRWM=200V	10	mA
REVERSE RECOVERY	trr	IF=1/2A, IR=1A, IREC=0.25A	50	ns

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