

SCHOTTKY POWER RECTIFIERS

MAXIMUM RATINGS PER DIODE			
PARAMETER	SYMBOL		UNITS
WORKING PEAK REVERSE VOLTAGE	VRRM	45	V
AVERAGE FORWARD CURRENT	IF(AV)	20	A
PEAK ONE CYCLE NON-REPETITIVE SURGE CURRENT	IFSM	380	A
PEAK REPETITIVE REVERSE CURRENT	IRRM	1.0	A
OPERATING JUNCTION TEMPERATURE RANGE	TJ	-65 TO +175	°C
STORAGE TEMPERATURE RANGE	Tstg	-55 TO +150	°C
THERMAL RESISTANCE JUNCTION TO CASE	RtJc	2.0	°C/W

45V, 20A, 0.70V	
SDS20045	JAA
SDS20045	JAB
SDS20045	JEA
SDS20045	JEB
SDS20045	JEC
SDS20045	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-S-19500 OR MIL-STD-883 SCREENING

ELECTRICAL CHARACTERISTICS Tc = 25°C (UNLESS OTHERWISE SPECIFIED)				
PARAMETER	SYMBOL	TEST CONDITIONS		UNITS
MAX. PEAK FORWARD VOLTAGE ①	VF	TJ=25°C IFM=20A	0.70	V
MAX. PEAK REVERSE CURRENT ①	IRM	TJ=25°C	2	mA
		TJ=125°C	40	
CAPACITANCE	Ct	Tc=25°C, VR=5VDC f=100KHZ TO 1 MHZ	1400	Pf

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

"J"

"N"

"K"

"L"

"M"

PIN	"J"	"K"	"L"	"M"	"N"
1	CATHODE	ANODE	CATHODE	CATHODE	ANODE
2	NO CONN.	COMMON	COMMON	COMMON	NO CONN.
3	ANODE	ANODE	CATHODE	ANODE	CATHODE
PKG.	JAA, JAB	JEA, JEB JEC, JED	JEA, JEB JEC, JED	JEA, JEB JEC, JED	JAA, JAB

CASE = NO CONNECTION

STANDARD BEND CONFIGURATIONS

"S"

"D"

"U"

JAA  
JEA  
JEC

(CUSTOM BEND OPTIONS AVAILABLE)

STANDARD BEND CONFIGURATIONS

"S"

"D"

"U"

JAB  
JEB  
JED

(CUSTOM BEND OPTIONS AVAILABLE)