



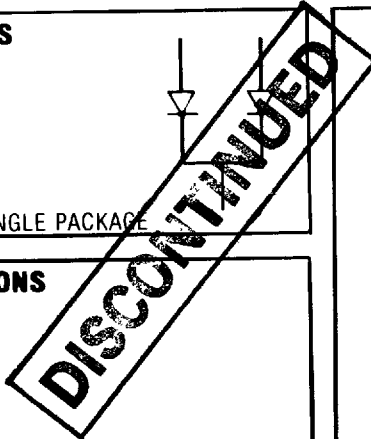
SCHOTTKY DIODES
SSPD3020 SSPD3030 SSPD3040

DUAL POWER SCHOTTKY RECTIFIERS
(COMMON CATHODE)

30 AMPERES

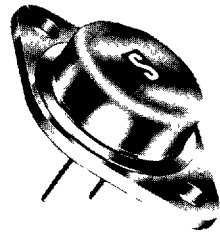
FEATURES

- HIGH EFFICIENCY
- NANOSECOND SWITCHING
- LOW CAPACITANCE
- HERMETICALLY SEALED
- VERY LOW FORWARD VOLTAGE DROP
- DUAL SCHOTTKY RECTIFIERS IN A SINGLE PACKAGE



APPLICATIONS

- HIGH SPEED SWITCHING CIRCUITS
- SWITCHING POWER SUPPLIES



TO-3

ABSOLUTE MAXIMUM RATINGS (PER DIODE)

		<u>SSPD3020</u>	<u>SSPD3030</u>	<u>SSPD3040</u>
V_{BR}	REVERSE BREAKDOWN VOLTAGE AT 10mA	20V	30V	40V
I_F	FORWARD CURRENT	_____	30A	_____
$I_{F(SURGE)}$	FORWARD SURGE CURRENT (8 3ms NON REPETITIVE SINE WAVE)	_____	400A	_____
$R_{\theta JC}$	THERMAL RESISTANCE JUNCTION TO CASE	_____	1.4°C/W	_____
$T_{(OPER)}$	OPERATING TEMPERATURE	_____	-55°C to 175°C	_____
$T_{(STOR)}$	STORAGE TEMPERATURE	_____	-55°C to 175°C	_____

9-83-559

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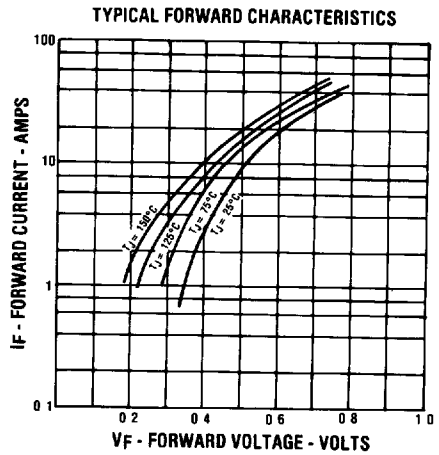
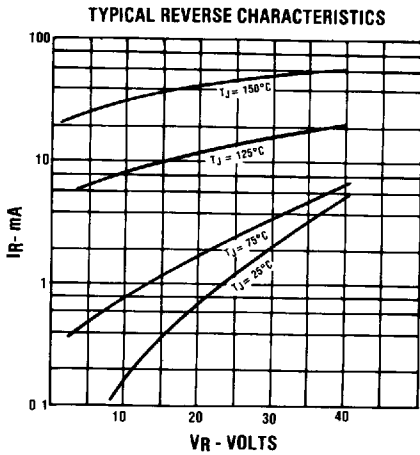
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SCHOTTKY DIODES
SSPD3020 SSPD3030 SSPD3040

ELECTRICAL CHARACTERISTICS (T_C = 25°C UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	MIN.	MAX.	UNITS
FORWARD VOLTAGE DROP (I _F = 10A, 25°C) (I _F = 20A, 25°C)	V _F		0.57 0.66	V V
REVERSE CURRENT (@ V _{BR} , T = 25°C) (@ V _{BR} , T = 125°C)	I _R		10 75	mA mA
CAPACITANCE (V _R = 5 0V)	C		1200	pF
RATE OF CHANGE (PIV VS TIME (MAX V _R = V _{BR}))	$\frac{dv}{dt}$	1000		V/μS



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