

**SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIERS**
D8PS20--D8PS100
FEATURES

- Super long operating life
- Plastic package has Underwriters Laboratory
Flammability Classification 94V-0



Lead-free

MECHANICAL DATA

- Case: TO-277B molded plastic body
- Mounting position: ANY

Maximum Ratings (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	D8	D8	D8	D8	D8	D8	D8	D8	UNITS
		PS20	PS30	PS40	PS45	PS50	PS60	PS90	PS100	
Maximum recurrent peak reverse voltage	V_{RRM}	20	30	40	45	50	60	90	100	V
Maximum RMS voltage	V_{RMS}	14	21	28	31.5	35	42	63	70	V
Maximum DC blocking voltage	V_{DC}	20	30	40	45	50	60	90	100	V
Maximum average forward rectified current at $T_L=90^\circ\text{C}$	$I_{F(AV)}$	8.0								A
Peak forward surge current 8.3ms single half sine -wave	I_{FSM}	275								A

Thermal Characteristics

Characteristic	Symbol	D8	D8	D8	D8	D8	D8	D8	D8	UNITS
		PS20	PS30	PS40	PS45	PS50	PS60	PS90	PS100	
Operating temperature range	T_J	- 55 ---- +125						- 55 ---- +150		°C
Storage temperature range	T_{STG}	- 55 ---- +150								°C

Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	D8	D8	D8	D8	D8	D8	D8	D8	UNITS	
		PS20	PS30	PS40	PS45	PS50	PS60	PS90	PS100		
Maximum instantaneous forward voltage at $I_{FM}=8.0\text{A}$	V_F	0.55				0.70		0.85		V	
Maximum DC reverse current at rated DC blocking voltage	I_R	$T_J=25^\circ\text{C}$ 0.2					$T_J=100^\circ\text{C}$ 20				m A



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PACKAGE OUTLINE DIMENSIONS

TO-277B		
Dim	Min	Max
A	1.00	1.30
A2	0.15	0.43
b1	0.75	1.05
b2	1.65	1.95
D	3.75	4.30
D2	2.80	3.20
E	6.35	6.70
e	1.65	1.95
E1	5.25	5.50
E2	3.05	3.55
L	0.85	1.30
L1	0.45	0.75
W	0.80	1.20
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
D8PS20-D8PS100	TO-277B	4000/Tape&Reel