SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

D15PS20--D15PS100

FEATURES

Lead-free

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

MECHANICAL DATA

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

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

Characteristic	Symbol	D15 PS20	D15 PS30	D15 PS40	D15 PS45	D15 PS50	D15 PS60	D15 PS90	D15 PS100	UNITS
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℃	$I_{F(AV)}$	15								A
Peak forward surge current 8.3ms single half sine -wave	I_{FSM}	275								A

Thermal Characteristics

Characteristic	Symbol	D15 PS20	D15 PS30	D15 PS40	D15 PS45	D15 PS50	D15 PS60	D15 PS90	D15 PS100	UNITS
Operating temperature range	T_J	- 55 ---- +125						- 55 ---- +150		℃
Storage temperature range	T_{STG}	- 55 ---- +150								℃

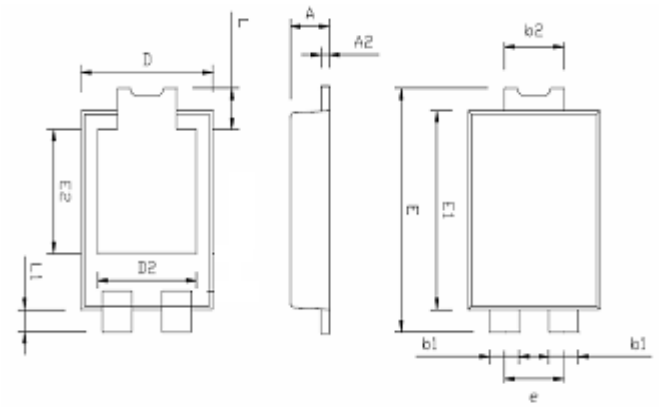
Electrical Characteristics (@TA = 25°C unless otherwise specified)

Characteristic	Symbol	D15 PS20	D15 PS30	D15 PS40	D15 PS45	D15 PS50	D15 PS60	D15 PS90	D15 PS100	UNITS
Maximum instantaneous forward voltage at I_{FM}=15A	V_F	0.55				0.70		0.85		V
Maximum DC reverse current T_J=25℃ at rated DC blocking voltage T_J=100℃	I_R	0.2 20								m A

SURFACE MOUNT SCHOTTKY
BARRIER RECTIFIERS

D15PS20--D15PS100

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
All Dimensions in mm		

PACKAGE INFORMATION

Device	Package	Shipping
D15PS20-D15PS100	TO-277B	4000/Tape&Reel