

SS20PU80

Product profile

High Current Density Surface Mount Ultra Low VF

Schottky Rectifier

General description

Rectifiers 20 Amp 80V

Features

Very low profile - typical height of 1.1 mm

Ideal for automated placement

Low forward voltage drop, low power losses

High efficiency

Low thermal resistance

Meets MSL level 1, per J-STD-020

Solder dip 260 °C max. 10 s, per JESD 22-A111

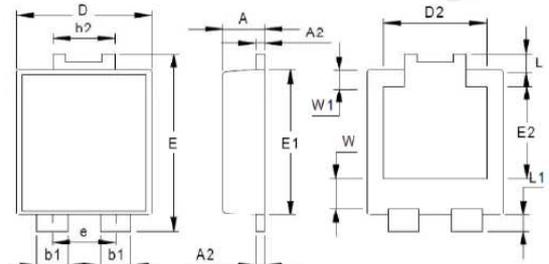
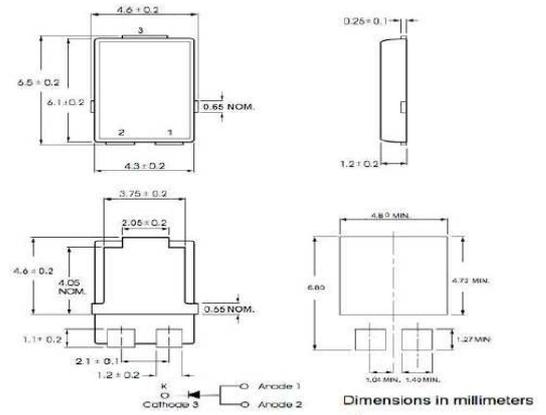
Compliant to RoHS directive 2002/95/EC and in accordance to WEEE 2002/96/EC

Mechanical data

Case: Conform to JEDEC TO-277A; Suffix /A

Industry TO-277B; Suffix /B

Molding compound meets UL 94 V-0 flammability



NO	Dimensions	NO	Dimensions
A	1.20±0.1	e	1.84Typ
A2	0.25±0.05	E1	5.3±0.1
b1	0.9±0.1	E2	3.3±0.2
D	3.95±0.1	L	0.6±0.1
D2	3.00Typ	L1	0.6±0.1
E	6.5±0.1	W	1.3±0.2
		W1	0.8±0.15

All Dimensions in mm

Maximum Ratings (Tc=25°C unless otherwise noted)

Parameter	Symbol	SS20PU80	Unit
Maximum repetitive peak reverse voltage	VRRM	80	V
RMS Voltage (Max.)	VRMS	56	V
Working peak reverse voltage	VRWM	80	V
Maximum average forward rectified current	IF(AV)	20	A
Peak forward surge current	IFSM	216	A
8.3ms single half sine-wave superimposed on rated load (JEDEC Method)			
Operating junction temperature range	TJ	-55 to +150	°C
Storage temperature range	TSTG	-55 to +150	°C

SS20PU80

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Unit
Typical thermal resistance	R θ JC	3	°C/W

Notes: (1) Pulse test: 300 μ s pulse width, 1 % duty cycle

(2) Pulse test: Pulse width \leq 40

Electrical characteristics (Tc=25°C unless otherwise noted)

OFF CHARACTERISTICS

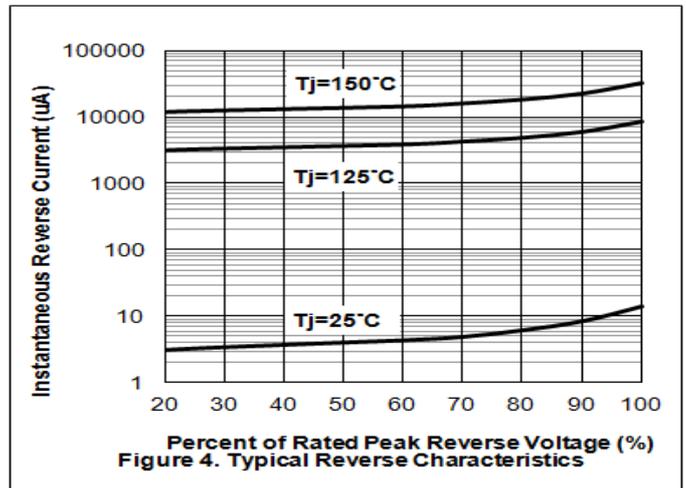
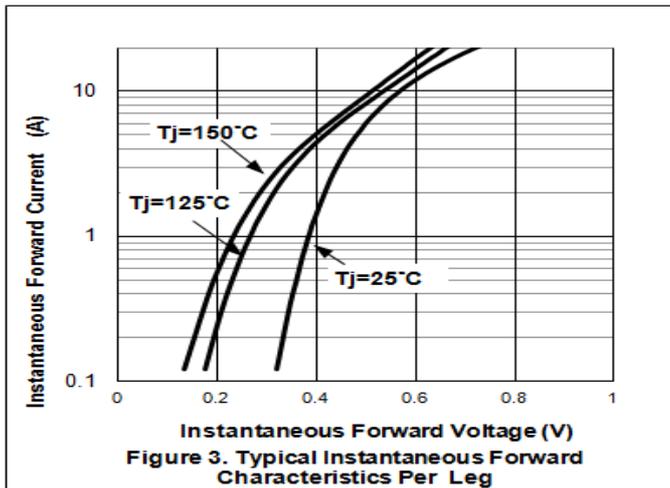
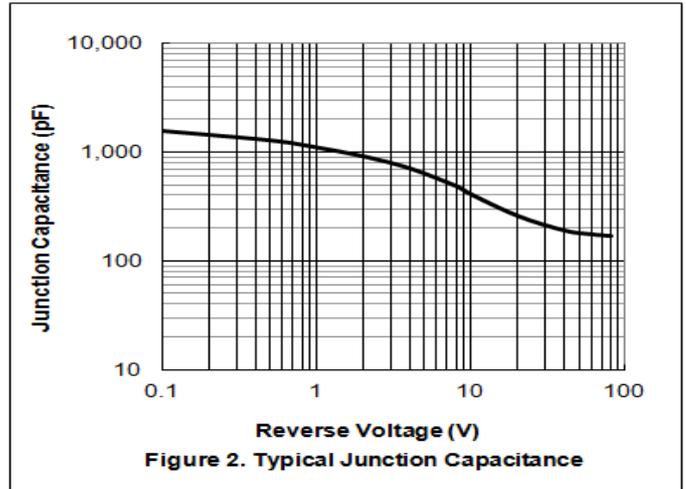
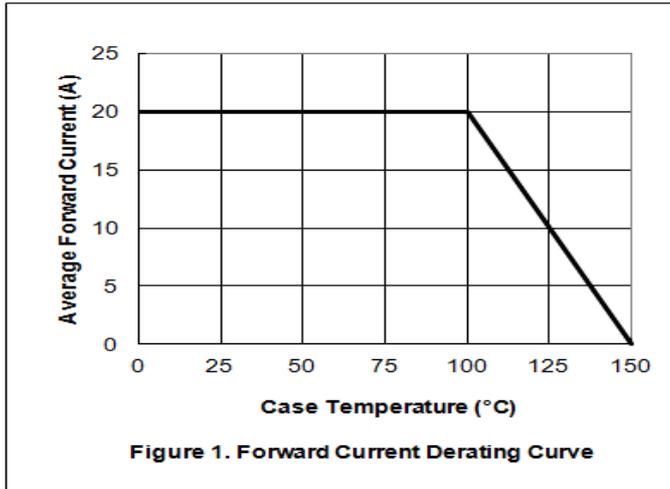
Parameter	Symbol	Value		Unit
		Typical	Max	
Instantaneous forward voltage	VF			V
at IF=5A, Tj=25°C		0.46	0.50	
at IF=20A, Tj=25°C		0.67	0.73	
at IF=5A, Tj=125°C		0.39	0.42	
at IF=20A, Tj=125°C		0.63	0.67	
Maximum reverse current Tj=25°C	IR	60		u'A
at working peak reverse voltage Tj=125°C		50		m'A

DEVICE MARK

SS20PU80

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■ Characteristic Curves



SS20PU80

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