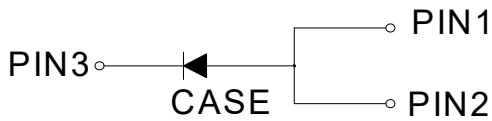
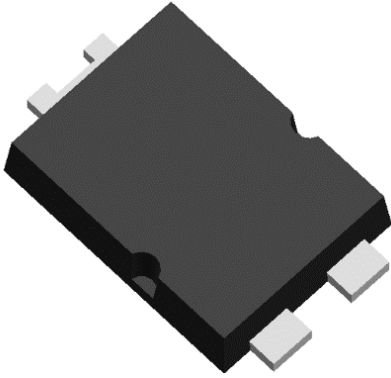


Schottky Rectifier



Features

- Ideal for automated placement
- Low power losses
- High forward surge capability
- Meets MSL level1, per J-STD-020, LF maximum peak of 260 °C
- Part no. with suffix "Q" means AEC-Q101 qualified

Typical Applications

For use in lighting, fast switching rectification of power suppliers, DC/AC inverters, DC/DC converters, and freewheeling diodes for polarity protection application for consumer, automotive and telecommunication.

Mechanical Data

- **Package:** TO-277
Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, Halogen free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102

■Maximum Ratings (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS5U100PAQ
Device marking code			SS5U100PA
Repetitive Peak Reverse Voltage	V _{RRM}	V	100
Average Rectified Output Current @60Hz -sine wave	I _O	A	5
Forward Surge Current (Non-repetitive) @60Hz Half-sine wave, 1 cycle, T _a =25°C	I _{FSM}	A	200
Current Squared Time @1ms≤t≤8.3ms T _J =25°C	I ² t	A ² s	166
Non-repetitive avalanche energy at I _{AS} =2.0 A, T _J = 25°C	E _{AS}	mJ	20
Storage Temperature	T _{stg}	°C	-55 ~+175
Junction Temperature	T _J	°C	-55 ~+175

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS		Typ	Max
Instantaneous forward voltage	V _F	V	I _F =5.0A	T _A =25°C	0.725	0.8
				T _A =125°C	0.585	0.68
Typical junction capacitance	C _J	pF	V _R =4V, f=1 MHz		270	-
Leakage Current	I _R	μA	V _R =100V	T _A =25°C	0.3	10
		mA		T _A =125°C	0.3	3



SS5U100PAQ

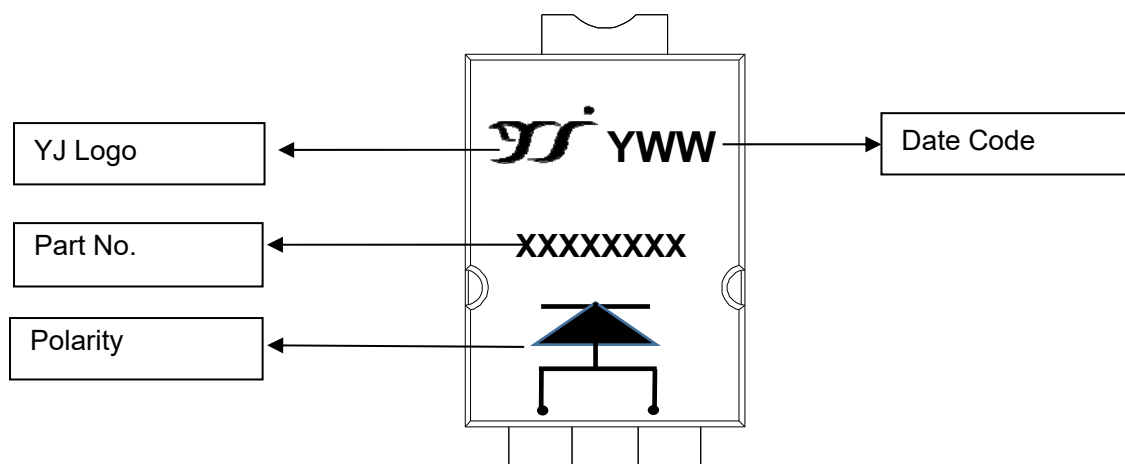
■ Thermal Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	SS5U100PAQ
Typical Thermal Resistance	R _{θJ-A}	°C/W	65
	R _{θJ-L}	°C/W	3

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS5U100PAQ	F1	Approximate 0.106	5000	10000	80000	13" reel

■ Marking Information



Note:

1. All marking is at middle of the product body
2. All marking is in laser printing
3. XXXXXX is part no., like SS5U100PA.
4. Body color: Black
5. YWW is date code, "Y" is year. "WW" is week.
For instance: The 15th week of 2019, date code is 915



■ Characteristics (Typical)

Fig.1:Forward Current Derating Curve

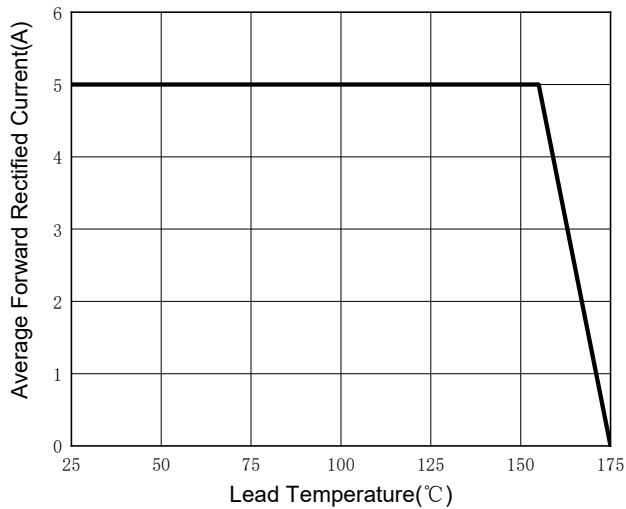


Fig.2:Forward Surge Current Capability

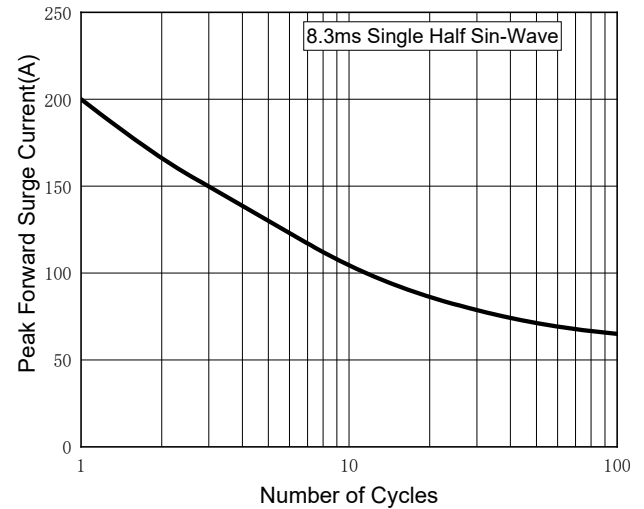


Fig.3:Typical Instantaneous Forward Characteristics

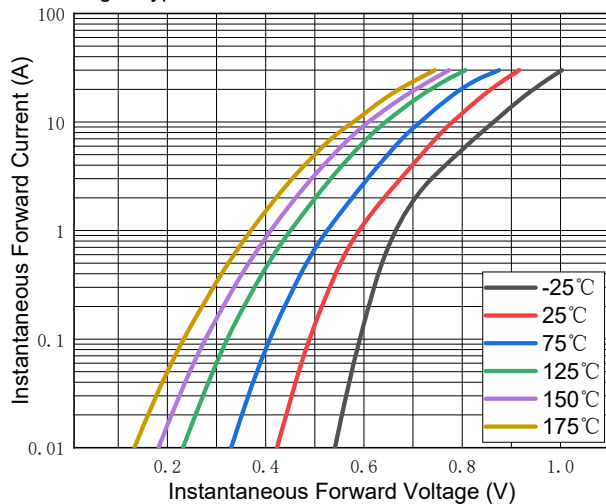
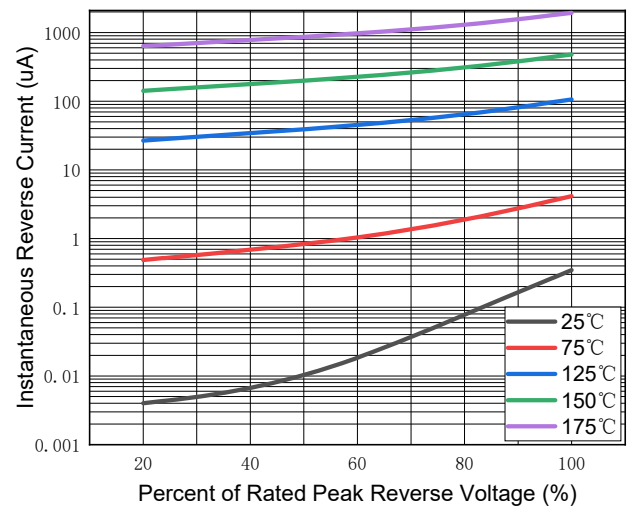


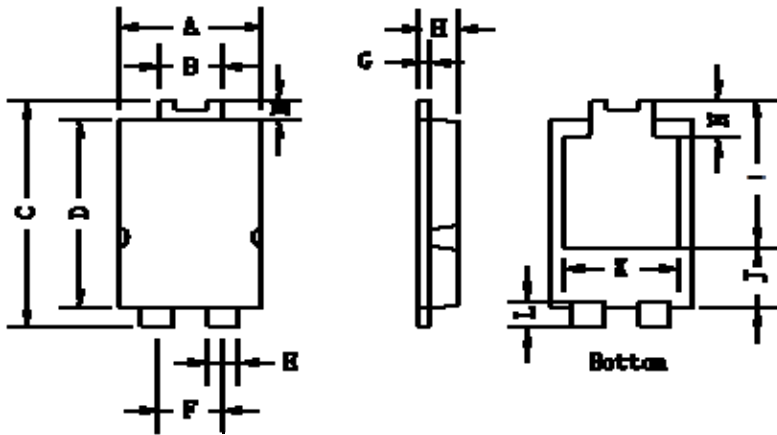
Fig.4:Typical Reverse Characteristics





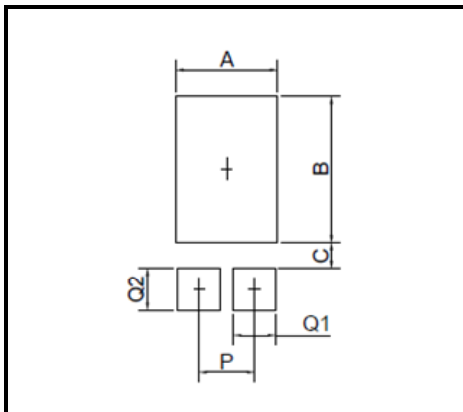
SS5U100PAQ

■ Outline Dimensions



DIM	mm	
	MIN.	MAX.
A	3.90	4.10
B	1.70	1.90
C	6.40	6.60
D	5.30	5.50
E	0.80	1.00
F	1.85 ref.	
G	0.35	0.45
H	1.10	1.20
I	4.10	4.50
J	1.50	1.90
K	2.90	3.40
L	0.55	0.75
M	0.50 ref.	
N	1.15 ref.	

■ Suggested pad layout



DIM	MIN.(mm)
A	3.36
B	4.86
C	0.85
P	1.84
Q1	1.40
Q2	1.40



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