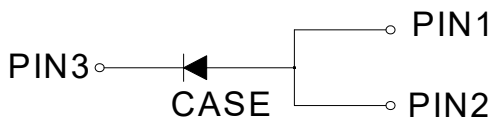
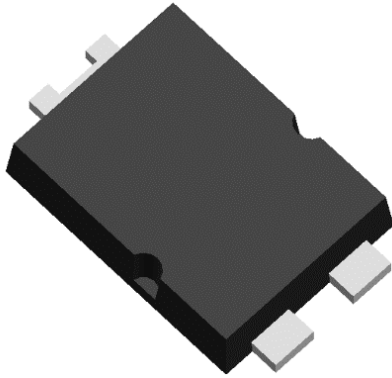


Schottky Rectifier



Features

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

Typical Applications

For use in lighting, fast switching rectification of power suppliers, inverters, converters, and freewheeling diodes for consumer, 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	SS5U50PAQ	SS5U60PAQ
Device marking code			SS5U50PA	SS5U60PA
Repetitive Peak Reverse Voltage	V _{RRM}	V	50	60
Average Rectified Output Current @60Hz -sine wave (FIG.1)	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	
Storage Temperature	T _{stg}	°C	-55 ~+150	
Junction Temperature	T _j	°C	-55 ~+150	

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

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Min	Typ	Max
Peak Forward Voltage	VFM	V	IFM =5.0A, T _j =25°C	-	-	0.64
			IFM =5.0A, T _j =125°C	-	-	0.55
Reverse Breakdown Voltage	VBR	V	IR=0.5mA SS5U50PAQ	50	-	-
			IR=0.5mA SS5U60PAQ	60	-	-
Leakage Current	IR	mA	VR= VRRM, T _j =25°C	-	-	0.15
			VR= VRRM, T _j =125°C	-	-	20



SS5U50PAQ THRU SS5U60PAQ

■ Thermal Characteristics ($T_a=25^\circ\text{C}$ Unless otherwise specified)

PARAMETER		SYMBOL	UNIT	SS5U50PAQ / SS5U60PAQ
Thermal Resistance	Junction to Case	$R_{\theta\text{-JC}}$	$^\circ\text{C/W}$	8

■ Ordering Information (Example)

PREFERRED P/N	PACKAGE CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
SS5U50PAQ SS5U60PAQ	F1	Approximate 0.0821	5000	10000	80000	13" reel

■ Characteristics (Typical)

FIG.1: I_o - T_c Curve

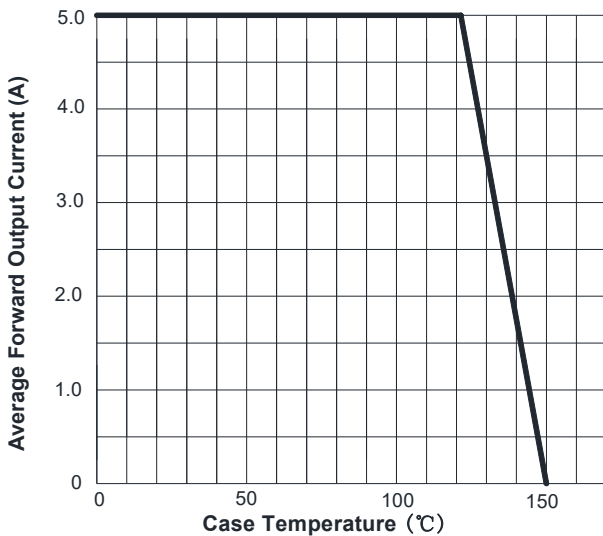


FIG.2: Forward Surge Current Capability

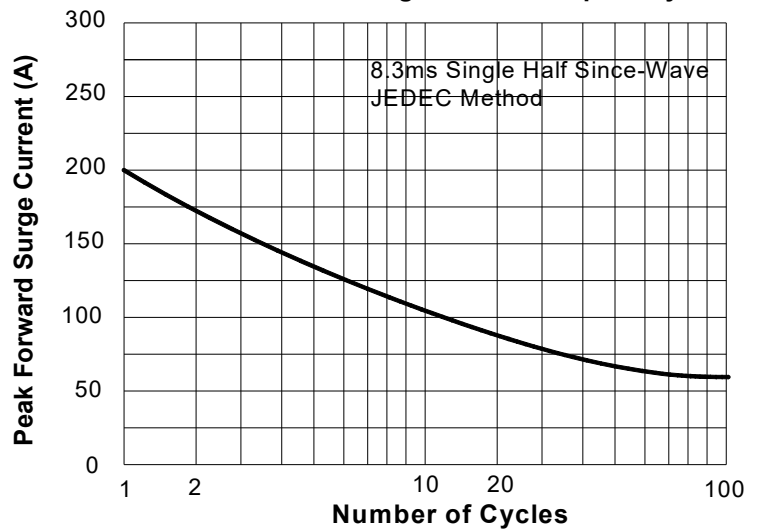


FIG3: Forward Voltage

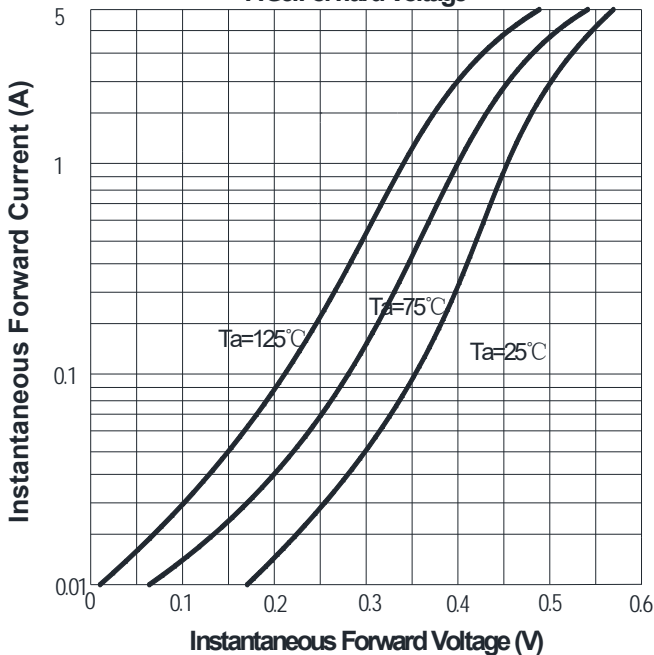
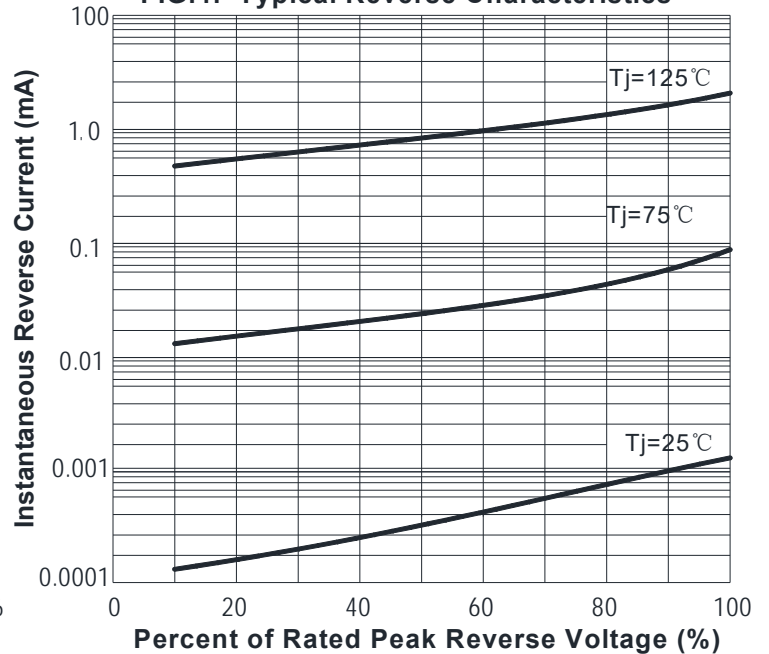


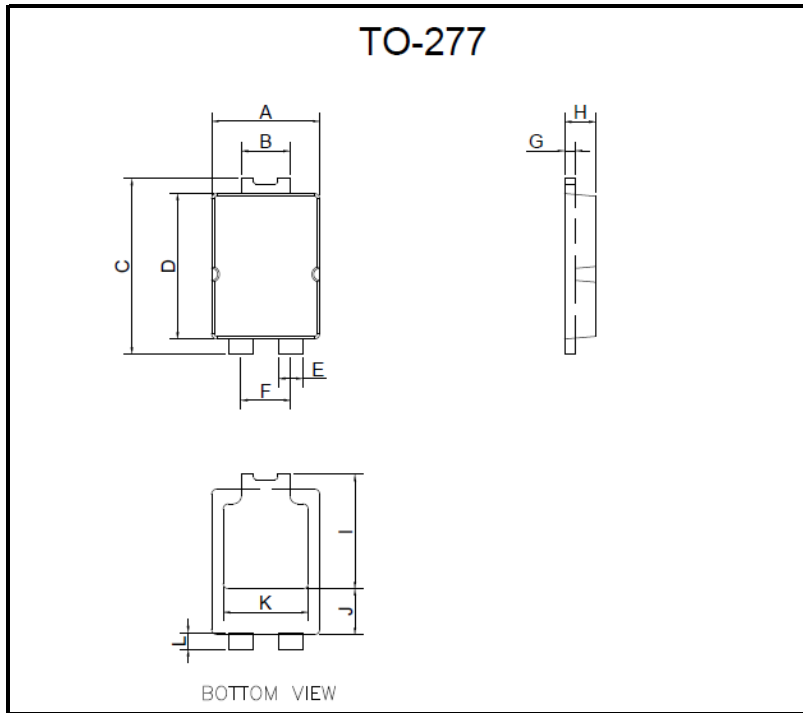
FIG.4: Typical Reverse Characteristics





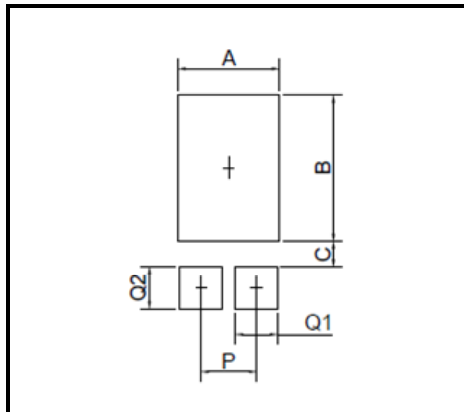
SS5U50PAQ THRU SS5U60PAQ

■ 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

■ Suggested pad layout



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



SS5U50PAQ THRU SS5U60PAQ

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