

Description

The DS32W~DS320W is Surface mount schottky barrier rectifier, SOD-123FL thin package.

Applications

- General purpose.

Features

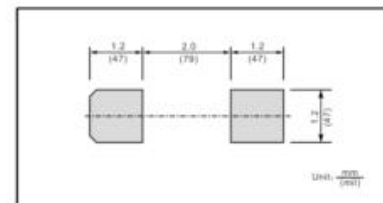
- Low power loss
- High efficiency
- High forward surge current capability
- For use in low voltage
- High frequency inverters
- And polarity protection applications
- For surface mounted applications
- Halogen free product

Equivalent Circuit & Pinning



PIN	DESCRIPTION
1	Cathode
2	Anode

The recommended mounting pad size



Marking

- See Marking Instructions.

**Absolute Maximum Ratings(Ta=25°C)**

Parameter	Symbol	Rating								Unit
		DS32W	DS34W	DS36W	DS38W	DS310W	DS312W	DS315W	DS320W	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	20	40	60	80	100	120	150	200	V
Maximum RMS Voltage	$V_{RMS}$	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	$I_F$ (AV)	3.0								A
Peak Forward Surge current, 8.3ms Single Half sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	80				70				A
Typical Junction Capacitance <sup>1)</sup>	$C_i$	250		160						pF
Typical Thermal Resistance <sup>2)</sup>	$R_{\theta JA}$	40								°C/W
Operating Junction Temperature Range	$T_j$	-55~+125								°C
Storage Temperature Range	$T_{stg}$	-55~+150								°C

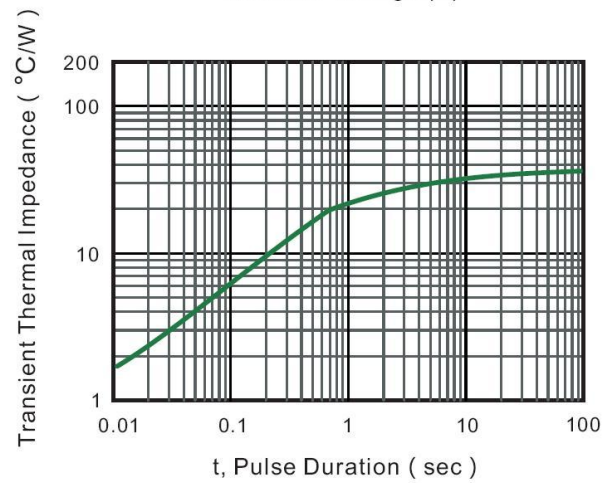
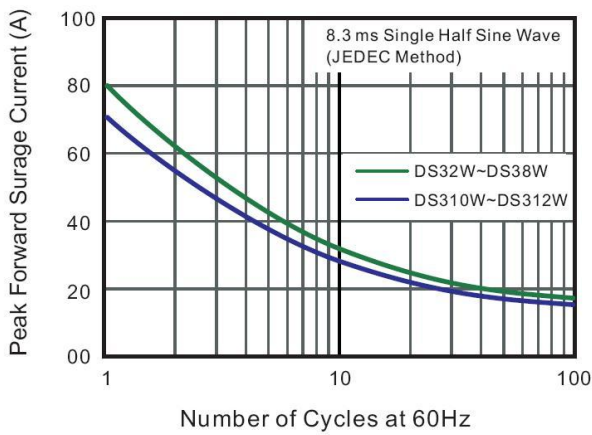
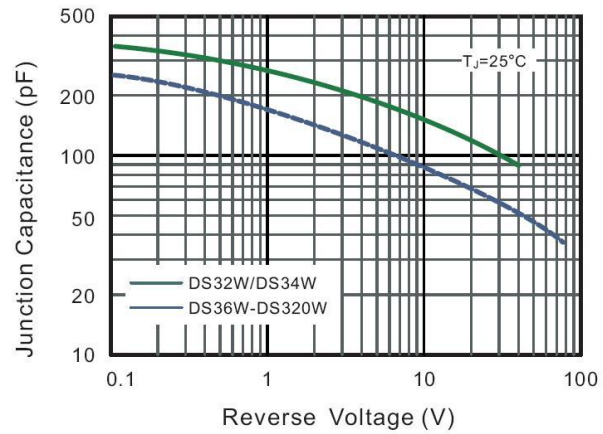
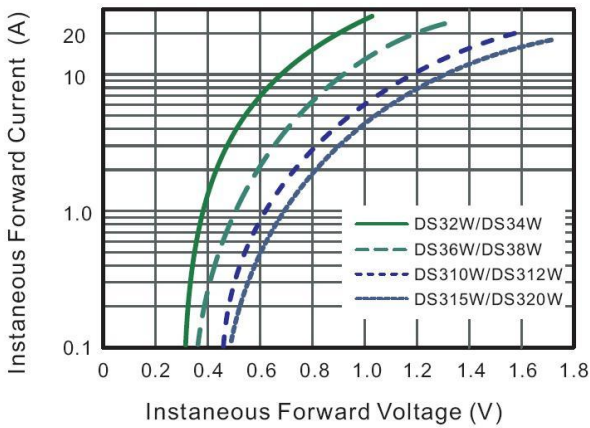
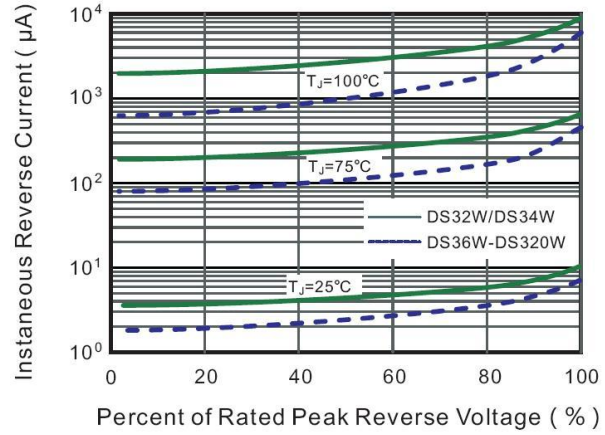
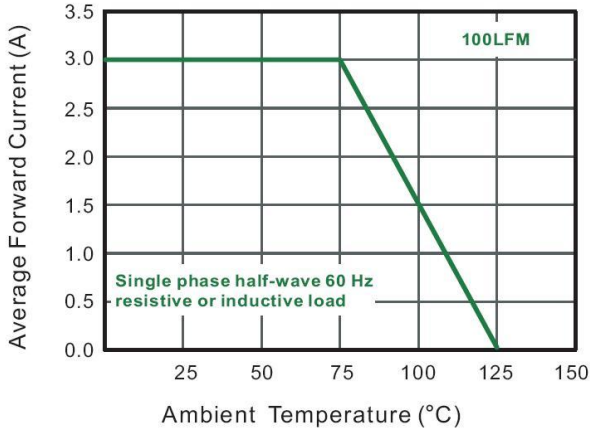
Note:

- 1) Measured at 1MHz and applied reverse voltage of 4 V D.C.
- 2) P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

**Electrical Characteristics(Ta=25°C)**

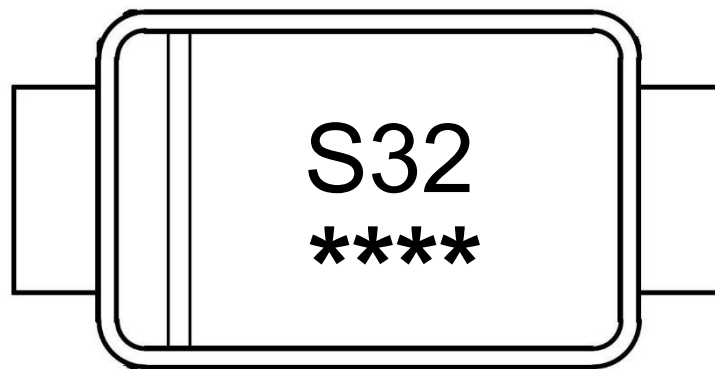
Parameter	Symbol	Test Conditions	Rating								Unit
			DS32W	DS34W	DS36W	DS38W	DS310W	DS312W	DS315W	DS320W	
Max Instantaneous Forward Voltage	$V_F$	$I_F=3.0A$	0.55		0.70		0.85		0.95		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	$I_R$	$T_a=25^\circ C$	0.5				0.3				mA
		$T_a=100^\circ C$	10				5.0				

Electrical Characteristic Curve



**Marking instructions**

Type number	Marking code
DS32W	S32
DS34W	S34
DS36W	S36
DS38W	S38
DS310W	S310
DS312W	S312
DS315W	S315
DS320W	S320



Note:

S32: Product Type Code

\*\*\*\*: Lot No. Code, The 1st \* means:YM Code, The last 3 \* means:little Lot No Code

**Packaging SPEC.**

Package Type	Units					Dimension (unit: mm <sup>3</sup> )		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
SOD-123FL	3000	8	24000	6	144000	7" ×8	185X180X105	390X385X205

Package Outline Dimensions

SOD-123FL

