



DSS32 THRU DSS320

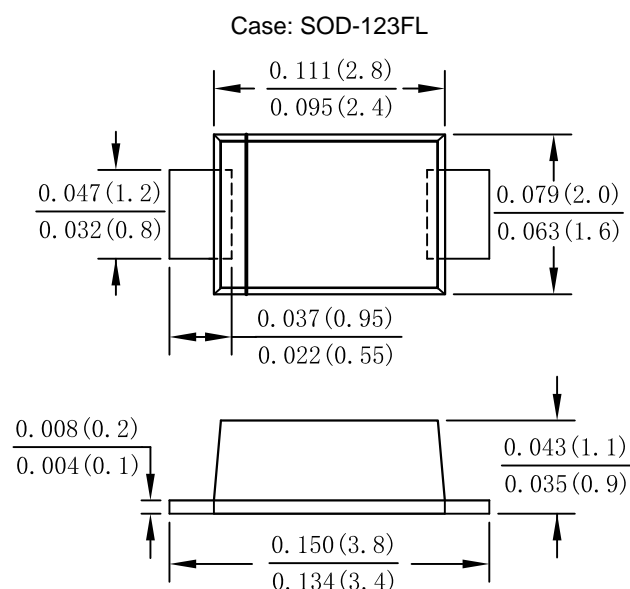
Single Phase 3.0AMP Surface Mount Schottky Barrier Rectifier

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High temperature soldering guaranteed: 260°C/10 seconds, 0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

Mechanical Data

- Case: SOD-123FL, molded plastic
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any



Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	DSS32	DSS33	DSS34	DSS35	DSS36	DSS38	DSS310	DSS315	DSS320	UNITS	
	Code	D32	D33	D34	D35	D36	D38	D310	D315	D320		
Peak Repetitive Reverse Voltage	V_{RRM}										V	
Working Peak Reverse Voltage	V_{RWM}	20	30	40	50	60	80	100	150	200		
DC Blocking Voltage	V_{DC}											
RMS Reverse Voltage	V_{RMS}	14	21	28	35	42	56	70	105	140	V	
Average Rectified Output Current @ $T_L=90^\circ C$	$I_{F(AV)}$	3.0									A	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave @ $T_j=125^\circ C$ Superimposed On Rated Load (JEDEC Method)	I_{FSM}						80					A
Non-Repetitive Peak Forward Surge Current 1.0ms Single half sine-wave @ $T_j=125^\circ C$ Superimposed On Rated Load (JEDEC Method)	I_{FSM}						160					A
10000 times of the wave surge current (time width 1ms, time interval 3s)	I_{FSM}						60					A
I^2t Rating for Fusing ($t < 8.3ms$)	I^2t	26.560									A ² s	
Forward Voltage per element @ $I_F=3.0A$	V_{FM}	0.55			0.7		0.85		0.92		V	
	T_{yp}	0.52			0.65		0.80		0.85			
Peak Reverse Current @ $T_A=25^\circ C$ At Rated DC Blocking Voltage @ $T_A=100^\circ C$	I_R	0.1					0.05					mA
		10					5					
Typical Junction Capacitance (Note 1)	C_J	110					70					pF
Typical Thermal Resistance	$R_{\theta JA}$	115									°C/W	
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150									°C	

Note: 1. Measured at 1.0 MHz and Applied reverse Voltage of 4.0V D.C



DSS32 THRU DSS320

Single Phase 3.0AMP Surface Mount Schottky Barrier Rectifier

Fig. 1 Typical Forward Current Derating Curve

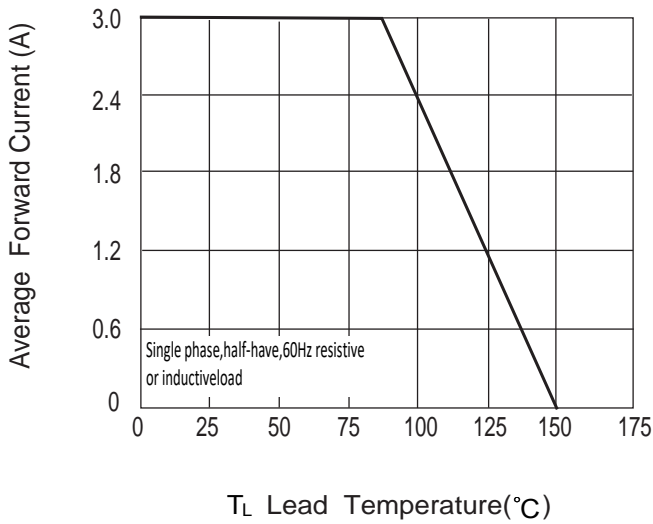


Fig. 2 Typical Instantaneous Forward Characteristics

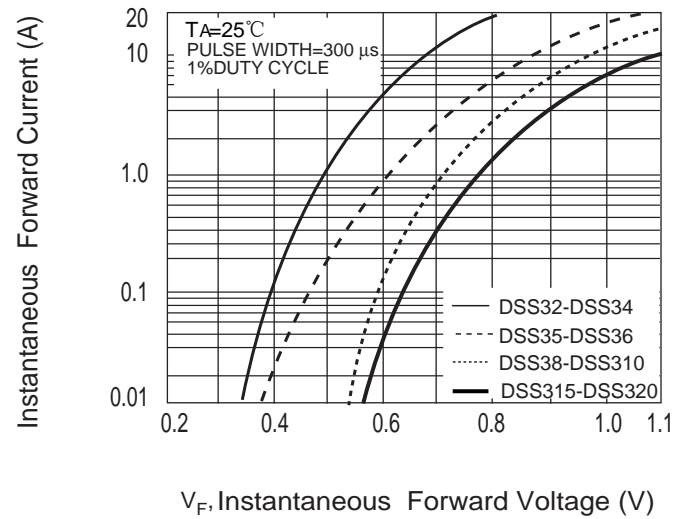


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

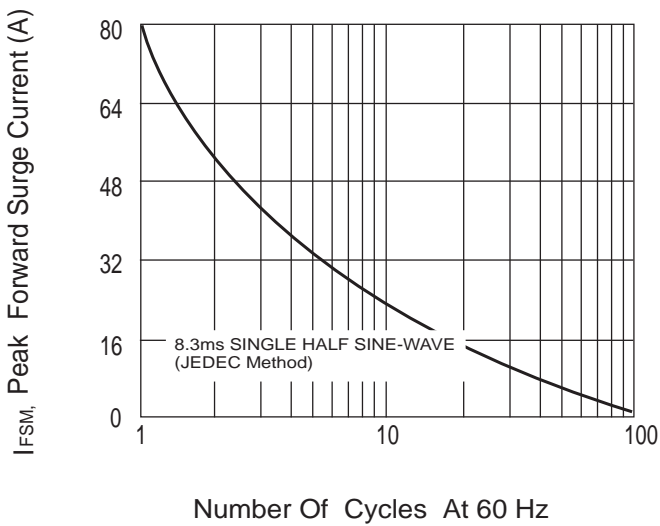


Fig.4 Typical Reverse Characteristics

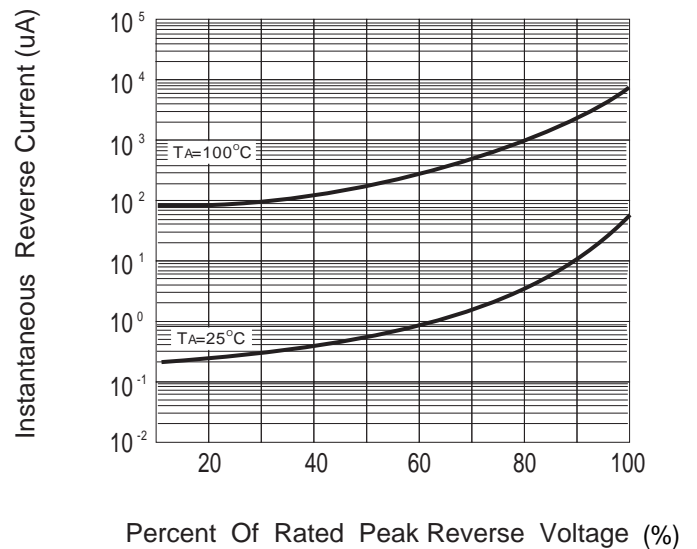
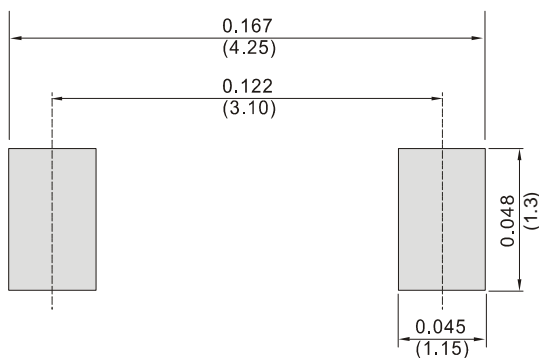


Fig.5 Typical Capacitance





Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from XINNUO
- XINNUO reserves the right to make changes to this document and its products and specifications
- XINNUO disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- XINNUO does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the here in document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.
XINNUO makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown here in are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify XINNUO for any damages resulting from such improper use or sale.
- Since XINNUO uses lot number as the tracking base, please provide the lot number for tracking when complaining.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Schottky Diodes & Rectifiers](#) category:

Click to view products by [DIYI](#) manufacturer:

Other Similar products are found below :

[MA4E2039](#) [MA4E2508M-1112](#) [MBR1545CT](#) [MMBD301M3T5G](#) [RB160M-50TR](#) [D83C](#) [BAS16E6433HTMA1](#) [BAT 54-02LRH E6327](#)
[NRVBAF360T3G](#) [NSR05F40QNXT5G](#) [NTE555](#) [JANS1N6640](#) [SK310-T](#) [SK34B-TP](#) [SS3003CH-TL-E](#) [GA01SHT18](#)
[CRS10I30A\(TE85L,QM](#) [MA4E2501L-1290](#) [MBRA140TRPBF](#) [MBRB30H30CT-1G](#) [BAT 15-04R E6152](#) [JANTX1N5712-1](#) [DMJ3940-000](#)
[SB007-03C-TB-E](#) [SK33B-TP](#) [NRVBB20100CTT4G](#) [NRVBM120LT1G](#) [NTSB30U100CT-1G](#) [VS-6CWQ10FNHM3](#) [CRG04\(T5L,TEMQ\)](#)
[ACDBA1100LR-HF](#) [ACDBA1200-HF](#) [ACDBA240-HF](#) [ACDBA3100-HF](#) [CDBQC0530L-HF](#) [CDBQC0240LR-HF](#) [ACDBA260LR-HF](#)
[ACDBA1100-HF](#) [MA4E2502L-1246](#) [10BQ015-M3/5BT](#) [NRVBM120ET1G](#) [CRS08TE85LQM](#) [PMAD1108-LF](#) [B120Q-13-F](#) [1N5819T-G](#)
[B0530WSQ-7-F](#) [PDS1040Q-13](#) [B160BQ-13-F](#) [SDM05U20CSP-7](#) [B140S1F-7](#)