

Mechanical Data

Mounting position: Any

DSS22 THRU DSS225

SINGLE PHASE 2.0AMP 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

Case: SOD-123FL, molded plasticTerminals: plated leads solderable per

MIL-STD-750, Method 2026

 High temperature soldering guaranteed: 260°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension



Dimensions in inches and (millimeters)

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%.

· Polarity: Color band denotes cathode end

TYPE NUMBER	SYMBOL	DSS22	DSS23	DSS24	DSS25	DSS26	DSS28	DSS210	DSS215	DSS220	DSS225	UNITS
	Code	D22	D23	D24	D25	D26	D28	D210	D215	D220	D225	
Peak Repetitive Reverse Voltage	VRRM			10	50			400	450		050	
Working Peak Reverse Voltage	Vrwm	20	30	40	50	60	80	100	150	200	250	V
DC Blocking Voltage	VDC											
RMS Reverse Voltage	VRMS	14	21	28	35	42	56	70	105	140	175	V
Average Rectified Output Current @T_ =90 $^\circ C$	IF(AV)	2.0									А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ifsm	50									А	
I ² t Rating for Fusing (t < 8.3ms)	l²t	10.375									A ² s	
Forward Voltage per element @IF=2.0A	Vfm		0.55		0	0.7 0.8		85	0.92		0.95	V
Peak Reverse Current @Ta =25℃ At Rated DC Blocking Voltage @Ta =100℃	IR	0.1 0.05										
		10 5								mA		
Typical junction capacitance (NOTE 1)	CJ	220				80						pF
Operating junction temperature range	TJ	-55to+150									°C	
Operating and Storage Temperature Range	Тѕтс	-55to+150										°C

Note:1. Measured at 1MHZ and applied reverse voltage of 4.0V D.C.



FIG. 1- FORWARD CURRENT DERATING CURVE





FIG. 5-TYPICAL JUNCTION CAPACITANCE





FIG. 4-TYPICAL REVERSE CHARACTERISTICS



PERCENT OF RATED PEAK REVERSE VOLYAGE(%)



DSS22 THRU DSS225



Important Notice and Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from DIYI.
- DIYI reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.
- DIYI disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- DIYI does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications.

DIYI makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.

- The products shown herein 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 DIYI for any damages resulting from such improper use or sale.
- Since DIYI uses lot number as the tracking base, please provide the lot number for tracking when complaining.