

DSS22U THRU DSS225U

SINGLE PHASE 2.0AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

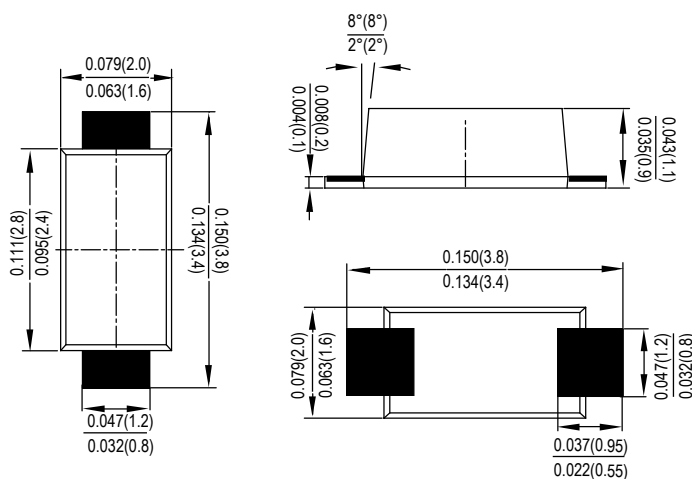
Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High temperature soldering guaranteed:
260℃/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

SOD-123FL



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	DSS22U	DSS23U	DSS24U	DSS25U	DSS26U	DSS28U	DSS210U	DSS215U	DSS220U	DSS225U	UNITS
	Code	D22U	D23U	D24U	D25U	D26U	D28U	D210U	D215U	D220U	D225U	
Peak Repetitive Reverse Voltage	V _{RRM}	20	30	40	50	60	80	100	150	200	250	V
Working Peak Reverse Voltage	V _{RWM}											
DC Blocking Voltage	V _{DC}											
RMS Reverse Voltage	V _{RMS}	14	21	28	35	42	56	70	105	140	175	V
Average Rectified Output Current @T _A =90℃	I _o	2.0										A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60										A
Forward Voltage per element @I _F =2.0A	V _{FM}	0.5			0.67		0.8		0.90		0.92	V
Peak Reverse Current @T _A =25℃ At Rated DC Blocking Voltage @T _A =100℃	I _R	0.1					0.05					mA
		10					5					
Typical junction capacitance (NOTE 1)	C _J	220			80							pF
Operating junction temperature range	T _J	-55to+150										℃
Operating and Storage Temperature Range	T _{STG}	-55to+150										℃

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

FIG. 1- FORWARD CURRENT DERATING CURVE

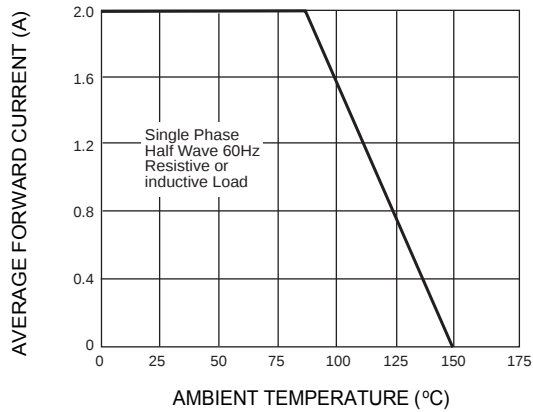


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

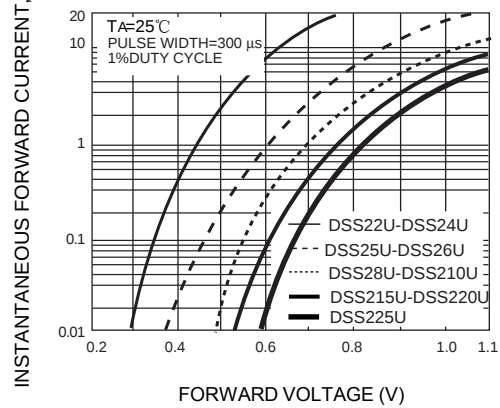


FIG. 3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

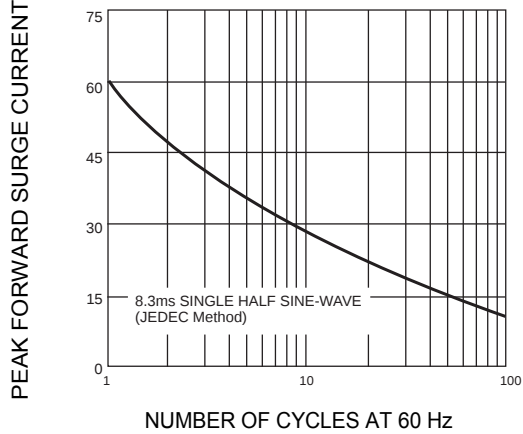


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

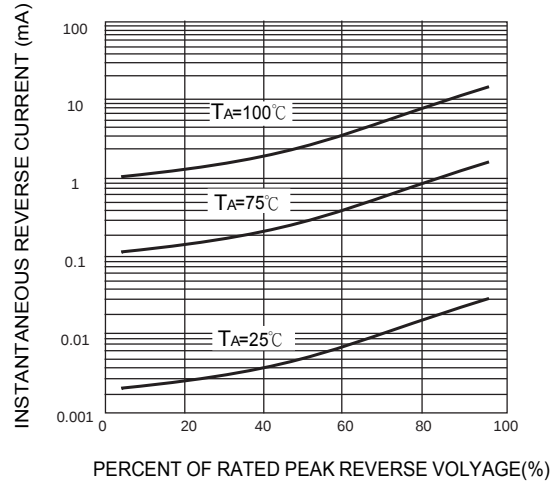


FIG. 5-TYPICAL JUNCTION CAPACITANCE

