

FEATURES

- Average Forward Current: I_{F(AV)}=1A
- Polarity: Color band denotes cathode



SOD-123F





Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)			
DSS12-DSS110	SOD-123F	K1 *	3000			

★:From 2-10

Maxmim Ratings (Ta=25 unless otherwise noted)

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20 %

TYPE NUMBER	DSS12	DSS13	DSS14	DSS15	DSS16	DSS18	DSS19	DSS110	UNITS
Maximum Recurrent Peak Reverse Voltage		30	40	50	60	80	90	100	V
Maximum RMS Voltage		21	28	35	42	56	63	70	V
Maximum DC Blocking Voltage		30	40	50	60	80	90	100	V
Maximum Average Forward Rectified Current									
See Fig. 1		1.0							Α
Peak Forward Surge Current, 8.3 ms single half sine-wave									
superimposed on rated load (JEDEC method)		30							
Maximum Instantaneous Forward Voltage at 1.0A		0.55		0.70		0.85			V
Maximum DC Reverse Current Ta=25 ℃		0.2					mA		
at Rated DC Blocking Voltage Ta=100°C		10					mA		
Typical Junction Capacitance (Note1)		110							
Typical Thermal Resistance R JA (Note 2)		80							
Operating Temperature Range T _J		-65 —+125 -65					5 —+15	50	°C
Storage Temperature Range Tstc		-65—+150							°C

NOTES:

- 1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
- 2. Thermal Resistance Junction to Ambient.



Typical Characteristics

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

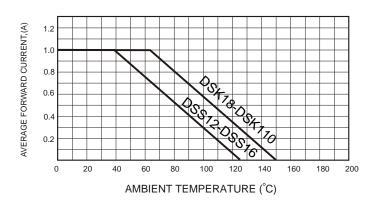
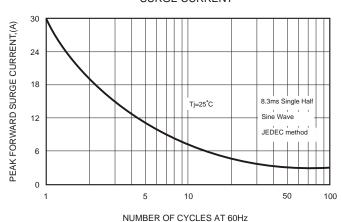


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



350 300 250 250 150 100 50 0.01 .05 .1 .5 1 5 10 50 10

REVERSE VOLTAGE,(V)

FIG.4-TYPICAL JUNCTION CAPACITANCE

FIG.2-TYPICAL FORWARD

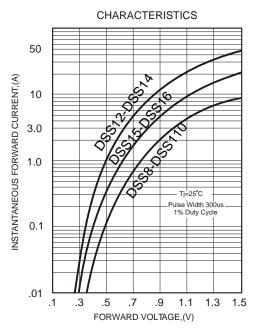
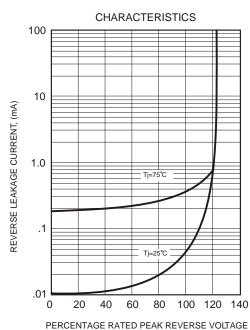
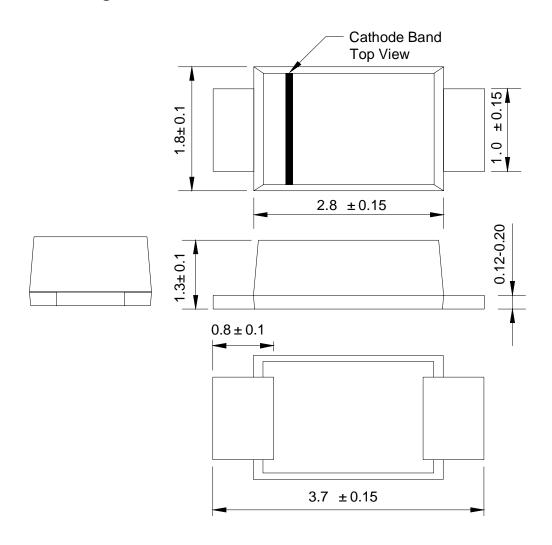


FIG.5 - TYPICAL REVERSE





SOD-123FL Package Outline Dimensions





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