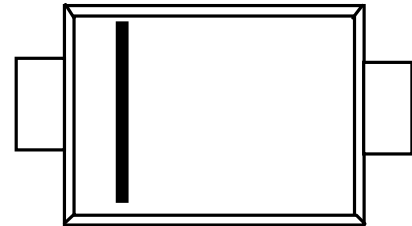


»Features

- Low forward voltage drop
- High current capability
- High reliability
- High surge current capability
- Epitaxial construction



SOD-123FL

»General Description

- Case: molded plastic
- Polarity: Color band denotes cathode
- Package: SOD-123FL Plastic Package

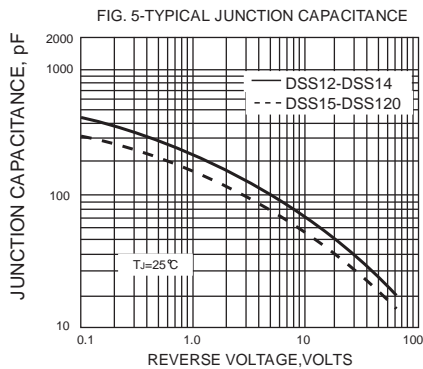
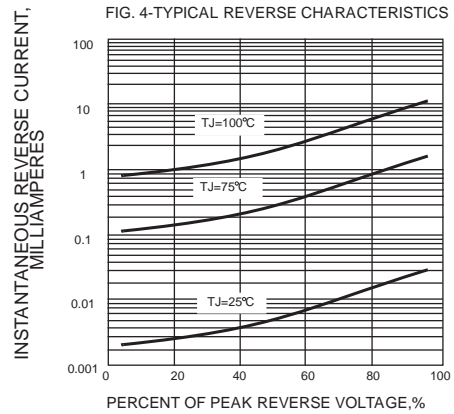
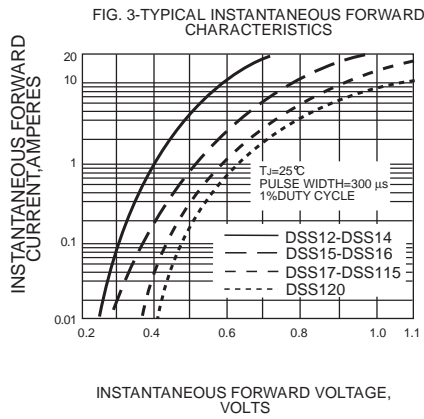
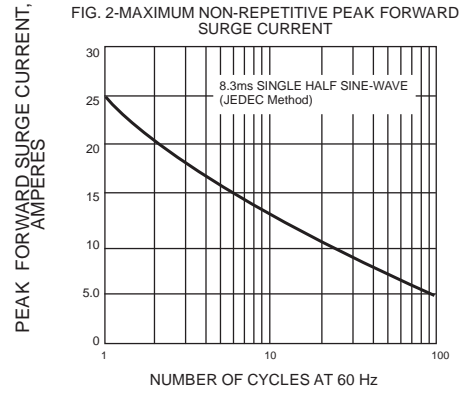
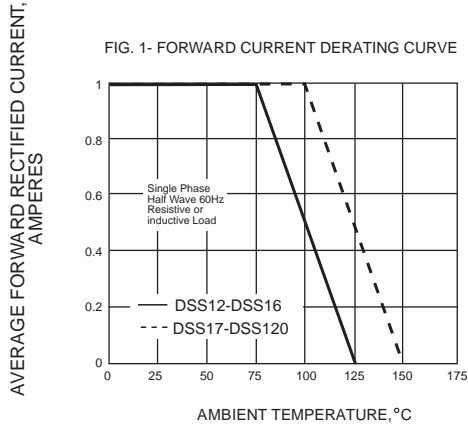
» Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

MDD Catalog Number	SYMBOLS	DSS12	DSS13	DSS14	DSS15	DSS16	DSS17	DSS18	DSS19	DSS110	DSS115	DSS120	UNITS	
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	150	200	VOLTS	
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	105	140	VOLTS	
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	70	80	90	100	150	200	VOLTS	
Maximum average forward rectified current	$I_{(AV)}$	1.0											Amp	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	25.0											Amps	
Maximum instantaneous forward voltage at 1.0A	V_F	0.55			0.70			0.85			0.95		Volts	
Maximum DC reverse current $T_A=25^{\circ}C$ at rated DC blocking voltage $T_A=100^{\circ}C$	I_R	0.5					5.0					0.2 2.0		mA
Typical junction capacitance (NOTE 1)	C_J	110					80					pF		
Operating junction temperature range	T_J	-55 to +125					-55 to +150					$^{\circ}C$		
Storage temperature range	T_{STG}	-55 to +150											$^{\circ}C$	

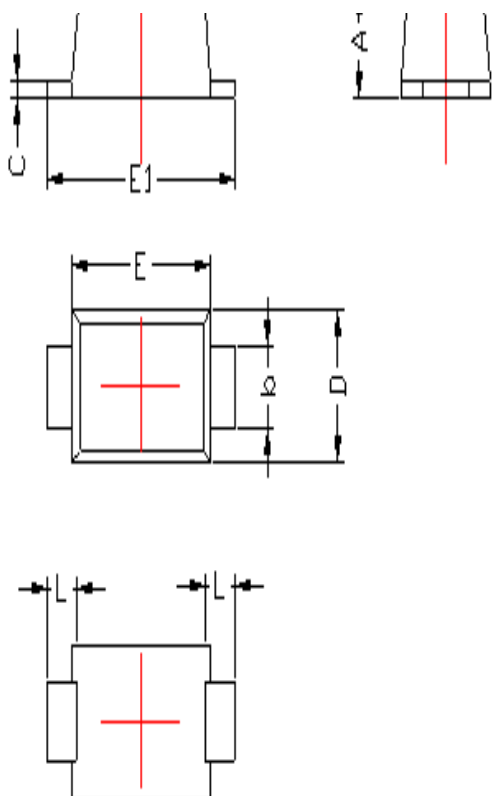
Note:1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

»Typical Performance Characteristics (T_J = 25 °C, unless otherwise noted)



»Package Information

SOD-123FL



SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.00	1.40
b	0.80	1.10
c	0.15	0.25
D	1.75	1.95
E	2.70	2.90
E1	3.50	3.90
L	0.35	0.85

»Ordering information

Part Number	DSS12	DSS13	DSS14	DSS15	DSS16	DSS17	DSS18	DSS19	DSS110	DSS115	DSS120
Marking	S12	K13	SL	K15	S16	S17	K18	K19	K110	K115	K120
Base qty	3K	3K	3K	3K	3K	3K	3K	3K	3K	3K	3K