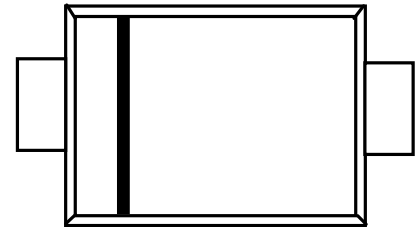


»Features

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

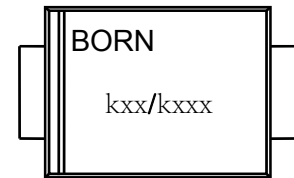


SOD-123FL

»General Description

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

»Marking Information



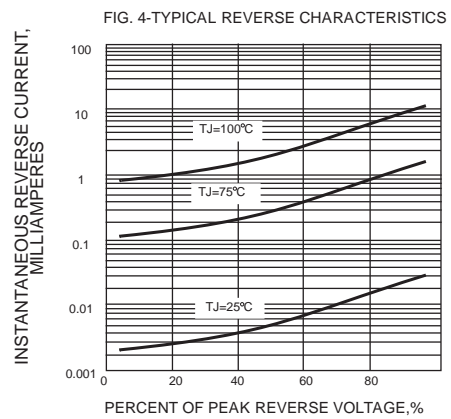
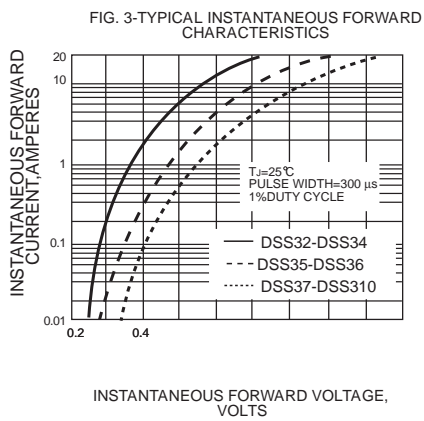
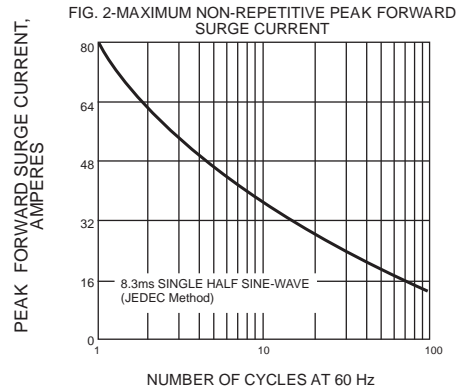
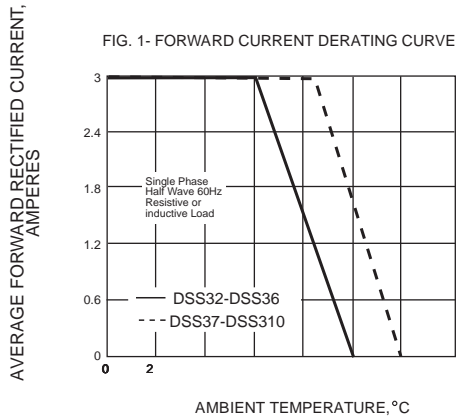
XX/XXX = Type Code

» Maximum Ratings and Electrical Characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.

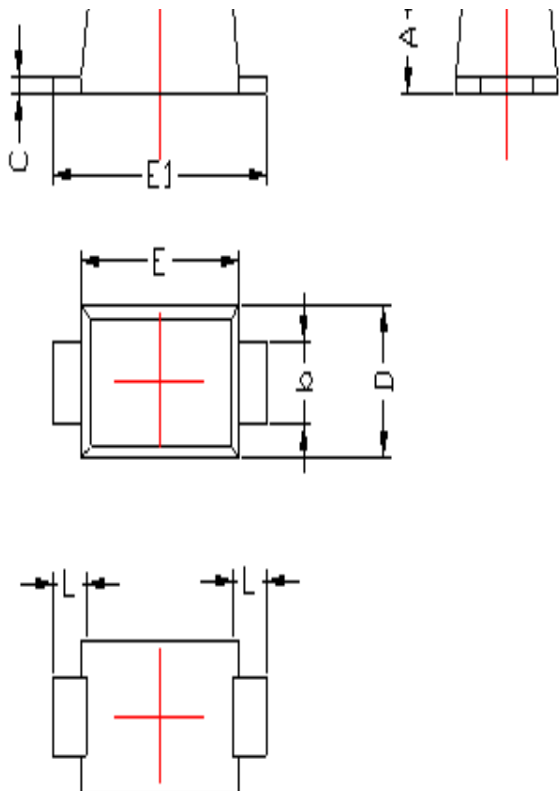
MDD Catalog Number	SYMBOLS	DSS32	DSS33	DSS34	DSS35	DSS36	DSS37	DSS38	DSS39	DSS310	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	70	80	90	100	VOLTS
Maximum RMS voltage	V_{RMS}	14	21	28	35	42	49	56	63	70	VOLTS
Maximum DC blocking voltage	V_{DC}	20	30	40	50	60	70	80	90	100	VOLTS
Maximum average forward rectified current	$I_{(AV)}$	3.0									Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	80.0									Amps
Maximum instantaneous forward voltage at 3.0A	V_F	0.52	0.55	0.70			0.85			Volts	
Maximum DC reverse current at rated DC blocking voltage	I_R	0.5									mA
		20.0					10.0				
Operating junction temperature range	T_J	-55 to +125					-55 to +150				°C
Storage temperature range	T_{STG}	-55 to +150									°C

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



»Package Information

SOD-123FL



SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.20	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

Package	Packing Description	Packing Quantity	Industry Standard
SOD-123FL	Tape/Reel,7" reel	3000	EIA-481-1