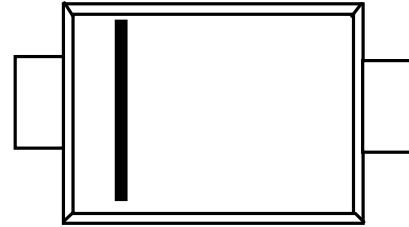


### »Features

- 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

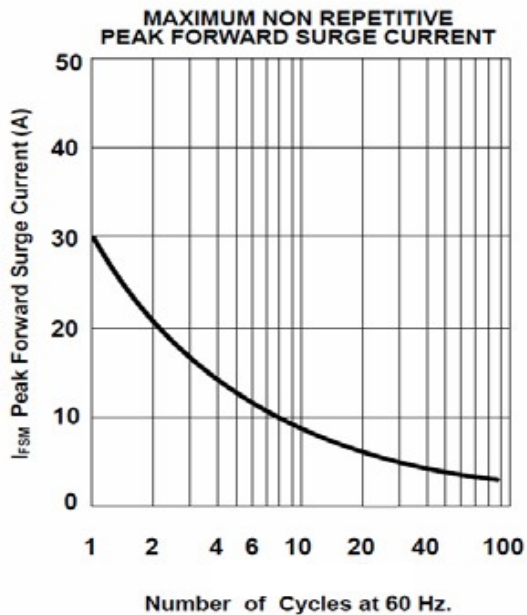
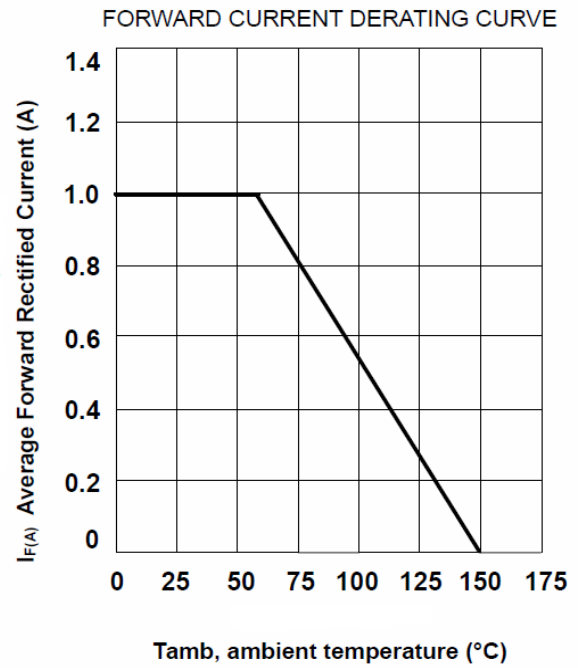
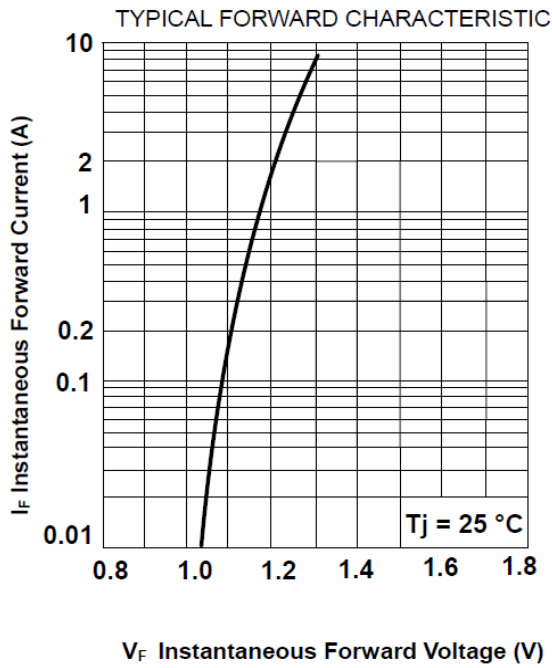
Ratings at 25 °C ambient temperature unless otherwise specified.

Parameters	Symbol	A7	Unit
Maximum repetitive peak reverse voltage	VRRM	1000	V
Maximum RMS voltage	VRMS	700	V
Maximum DC blocking voltage	VDC	1000	V
Maximum average forward rectified current	IF(AV)	1.0	A
Non-repetitive Peak forward surge current 8.3 ms single half sine-wave	IFSM	30	A
Typical thermal resistance	RθJA	45	°C/W
Operation junction and Storage temperature range	Tj,TSTG	-55-+150	°C

» **Electrical Characteristics** @ $T_A=25^{\circ}\text{C}$  unless otherwise noted

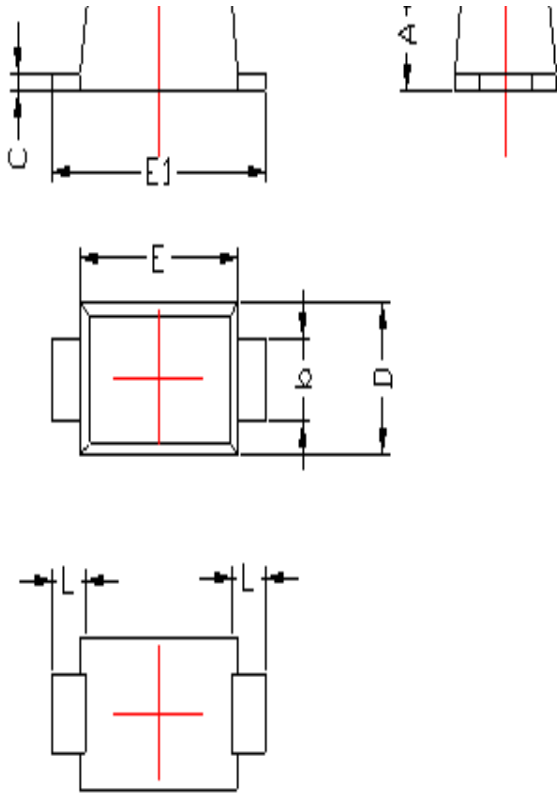
Parameters	Symbol	A7	Unit
@ $I_F=1.0\text{A}$ Max. forward voltage	$V_F$	1.1	V
@VDC $T_A=25^{\circ}\text{C}$ Max. reverse current $T_A=100^{\circ}\text{C}$	$I_R$	5 100	$\mu\text{A}$
$V_R=4.0\text{V}$ , $f=1\text{MHz}$ Type junction capacitance	$C_j$	15	pF

»Typical Performance Characteristics ((T<sub>J</sub> = 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

Order code	Package	Marking	Base qty	Delivery mode
A7	SOD-123FL	A7	3K	Tape and reel