

VOLTAGE RANGE: 30 - 60V

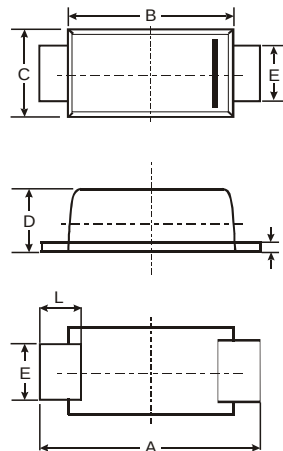
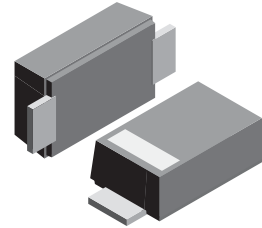
CURRENT: 1.0 A

Features

- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Classification 94V-O

Mechanical Data

- Case: SOD-123FL
plastic body over passivated junction
- Terminals : Plated axial leads,
- solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting Position : Any
- Weight: 0.0007 ounce, 0.02 grams



SOD-123FL			
Dim	Min	Max	Typ
A	3.58	3.72	3.65
B	2.72	2.78	2.75
C	1.77	1.83	1.80
D	1.02	1.08	1.05
E	0.097	1.03	1.00
H	0.13	0.17	0.15
L	0.53	0.57	0.55
All Dimensions in mm			

Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	RB162M-30	RB162M-40	RB162M-60	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	30	40	60	V
Forward Continuous Current (Note 1)	I _F	1.0			A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	25			A
Power Dissipation (Note 1)	P _d	450			mW
Operating and Storage Temperature Range	T _j , T _{STG}	-65 to +125			°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	RB162M-30	RB162M-40	RB162M-60	Unit
Forward Voltage Drop @I _F = 1.0A	V _{FM}	0.55	0.55	0.70	V
Peak Reverse Leakage Current @ V _{RRM}	I _{RM}	500			μA
Typical Junction Capacitance	C _j	50			pF

Note: 1. Valid provided that terminals are kept at ambient temperature.

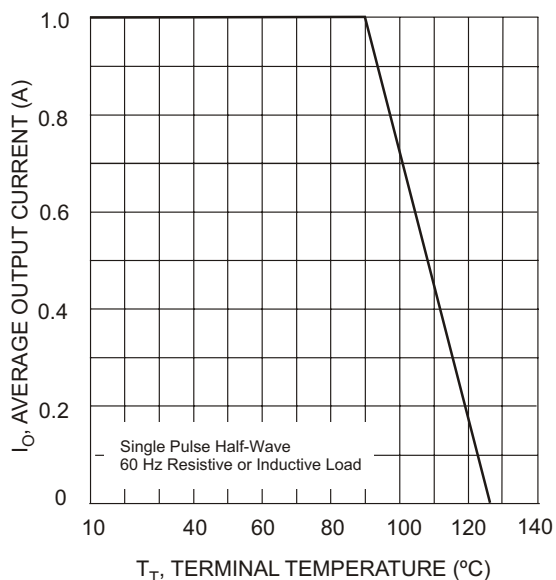


Fig. 1 Forward Current Derating Curve

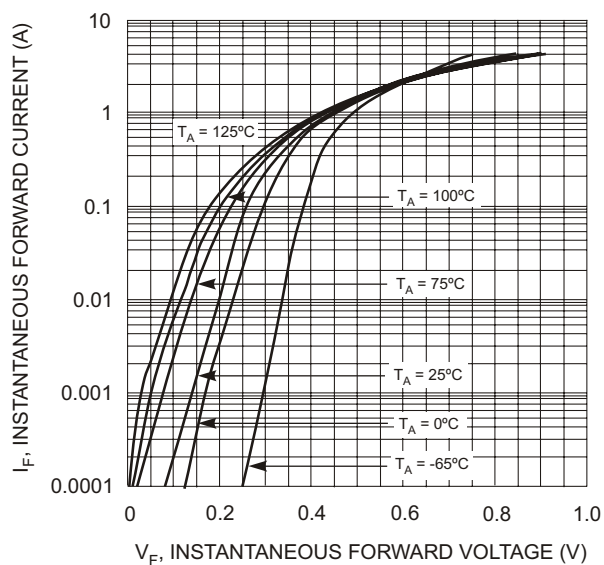


Fig. 2 Typical Forward Characteristics

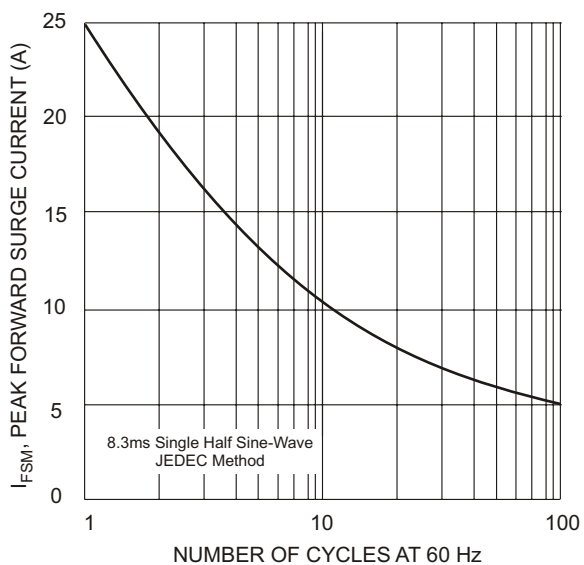


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

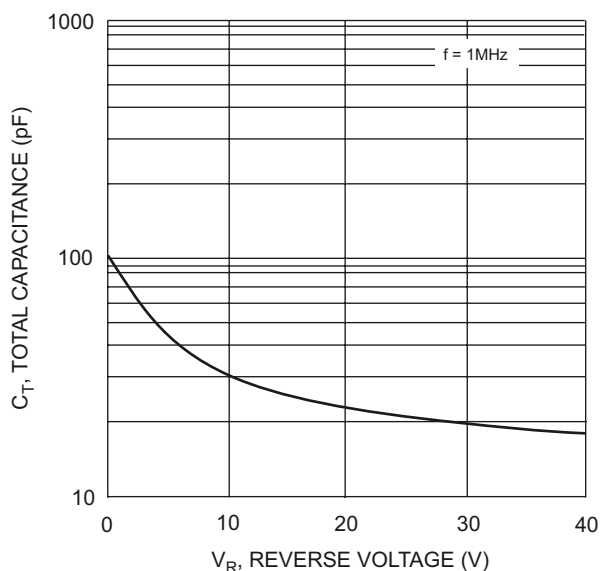


Fig. 4 Typical Total Capacitance