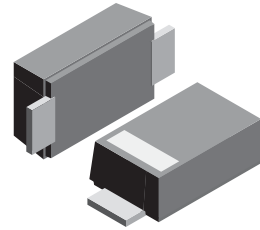


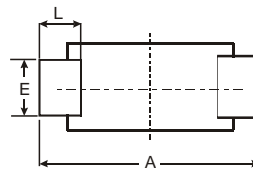
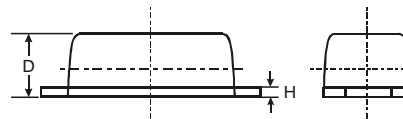
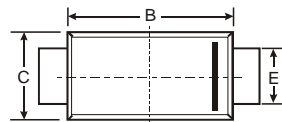
Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:
250°C/10 seconds, 0.375(9.5mm) lead length,
5 lbs. (2.3kg) tension



Mechanical Data

- Case: JEDEC SOD-123FL molded 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
- Marking: M20
- 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			

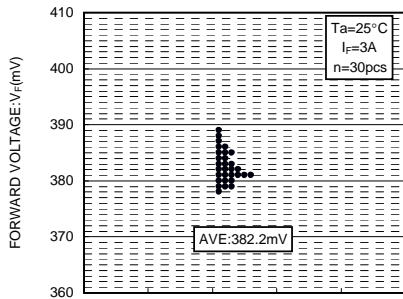
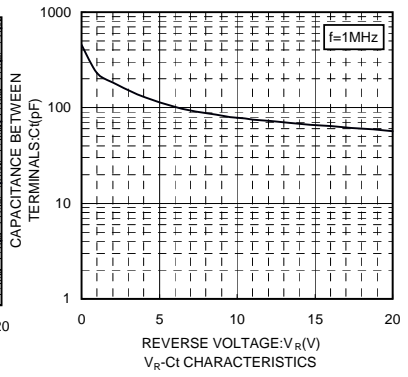
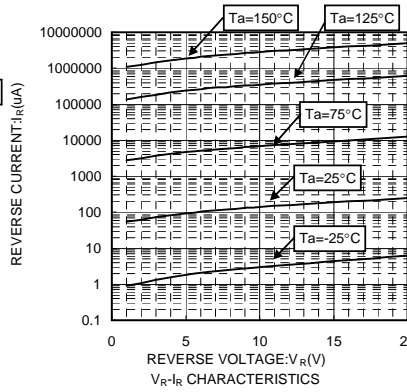
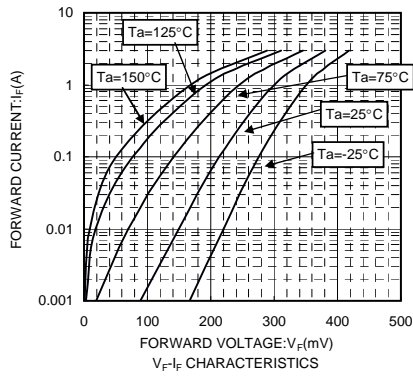


Maximum Ratings @ T_A = 25°C unless otherwise specified

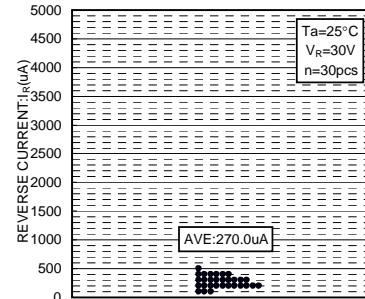
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V _{RM}	20	V
Reverse voltage (DC)	V _R	20	V
Average rectified forward current Mounting on alumina board. T _c =95 °C Max.	I _o	3	A
Forward current surge peak (60Hz·1cyc)	I _{FSM}	30	A
Junction temperature	T _j	125	°C
Storage temperature	T _{stg}	-40 to +125	°C

Electrical characteristics (T_a=25°C)

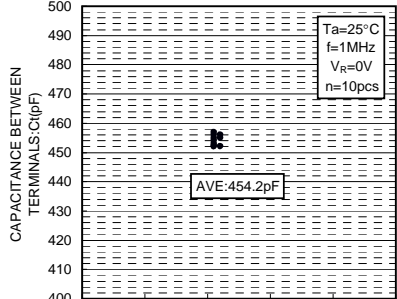
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F	-	-	0.46	V	I _F =3A
Reverse current	I _R	-	-	0.9	mA	V _R =20V



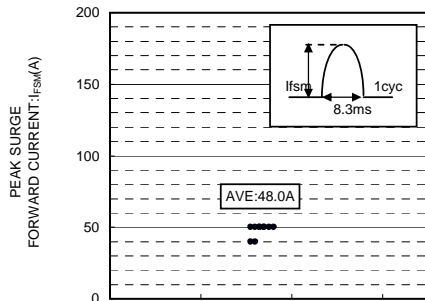
V_F DISPERSION MAP



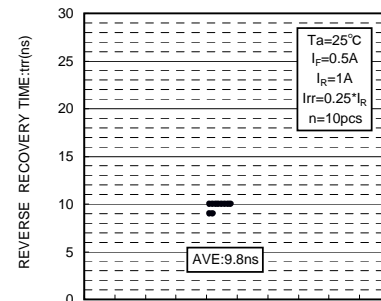
I_R DISPERSION MAP



C_T DISPERSION MAP



I_{FSM} DISPERSION MAP



t_{rr} DISPERSION MAP

