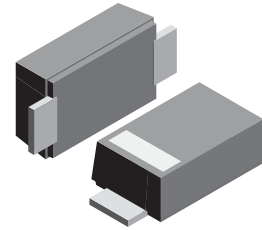


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### Features

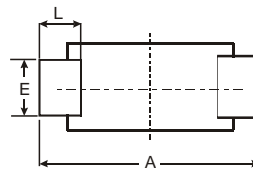
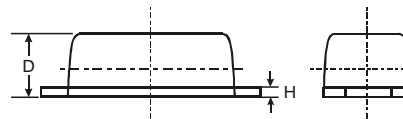
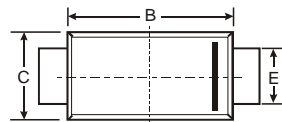
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Metal silicon junction, majority carrier conduction
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:  
250°C/10 seconds, 0.375(9.5mm) lead length,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




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### 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			



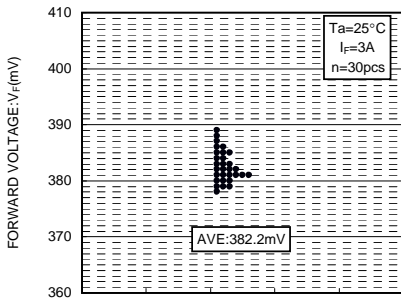
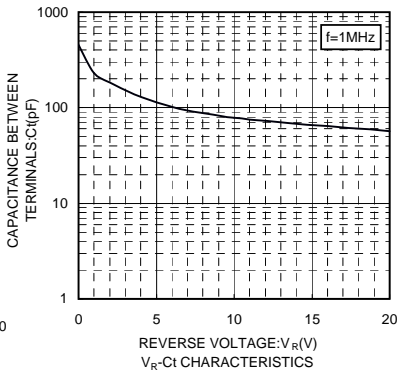
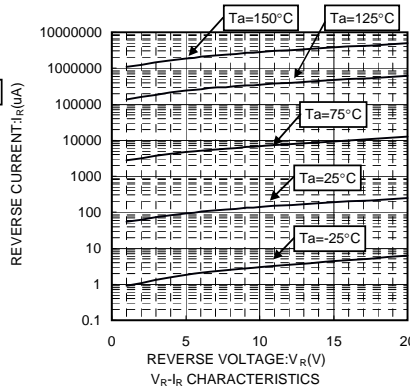
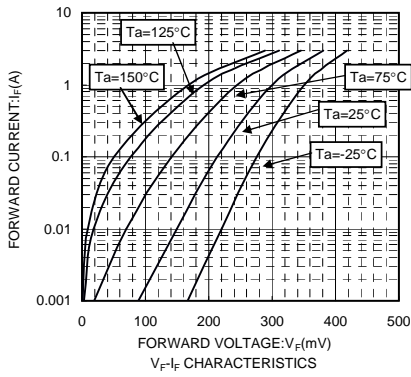

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### Maximum Ratings @ T<sub>A</sub> = 25°C unless otherwise specified

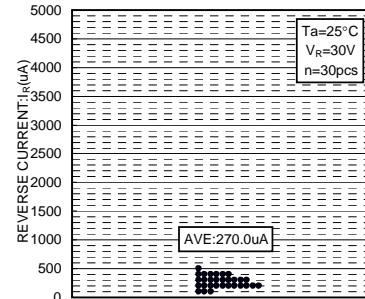
Parameter	Symbol	Limits	Unit
Reverse voltage (repetitive)	V <sub>RM</sub>	20	V
Reverse voltage (DC)	V <sub>R</sub>	20	V
Average rectified forward current Mounting on alumina board. T <sub>c</sub> =95 °C Max.	I <sub>o</sub>	3	A
Forward current surge peak (60Hz·1cyc)	I <sub>FSM</sub>	30	A
Junction temperature	T <sub>j</sub>	125	°C
Storage temperature	T <sub>stg</sub>	-40 to +125	°C

### Electrical characteristics (T<sub>a</sub>=25°C)

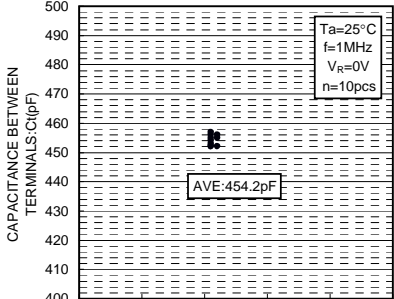
Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V <sub>F</sub>	-	-	0.46	V	I <sub>F</sub> =3A
Reverse current	I <sub>R</sub>	-	-	0.9	mA	V <sub>R</sub> =20V



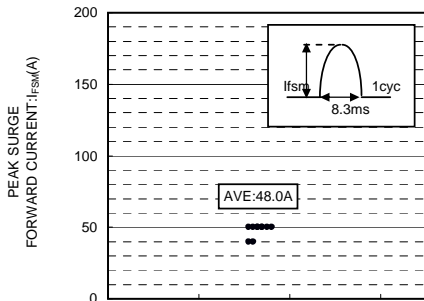
$V_F$  DISPERSION MAP



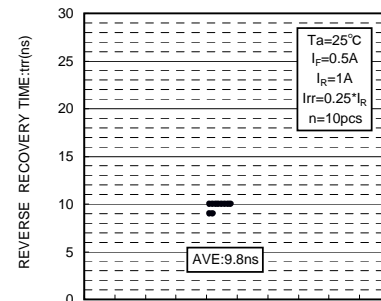
$I_R$  DISPERSION MAP



$C_t$  DISPERSION MAP



$I_{FSM}$  DISPERSION MAP



$t_{rr}$  DISPERSION MAP

