

Features

- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Glass Passivated Chip Junction
- Low Profile Package
- For Surface Mount Applications
- Super Fast Reverse Recovery Time
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Halogen Free. "Green" Device (Note 2)

Maximum Ratings

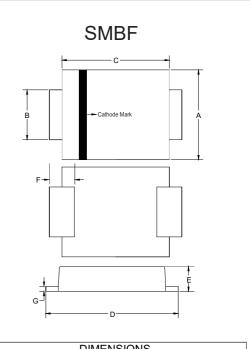
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(Note 3): 15°C/W Junction to Case
- Typical Thermal Resistance(Note 3): 20°C/W Junction to Lead
- Typical Thermal Resistance(Note 3): 60°C/W Junction to Ambient

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|---------------------------|-----------------------------------|
| ER3DBFL | ER3D | 200V | 140V | 200V |
| ER3GBFL | ER3G | 400V | 280V | 400V |
| ER3JBFL | ER3J | 600V | 420V | 600V |
| ER3KBFL | ER3K | 800V | 560V | 800V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

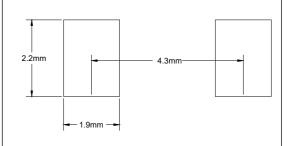
| Average Forward Current | I _{F(AV)} | 3.0A | T _L =55⁰C | |
|--|--------------------|--------------------------------|--|--|
| Peak Forward Surge Current | I _{FSM} | 100A | 8.3ms,Half Sine | |
| Maximum Instantaneous Forward Voltage ER3DBFL ER3GBFL ER3JBFL ER3KBFL | V _F | 0.95V 1.3V 1.7V 1.85V | I _F =3.0A; T _J =25⁰C | |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 5.0μA 100μA | T _J =25⁰C T _J =125⁰C | |
| Maximum Reverse Recovery Time | t _{rr} | 35ns | I _F =0.5A; I _R =1.0A; Irr=0.25A | |
| Typical Junction Capacitance ER3DBFL ER3GBFL ER3JBFL ER3KBFL | CJ | 60pF 35pF 29pF 21pF | Measured at 1.0MHz V _R =4.0V | |

3.0 Amp Super Fast Recovery Rectifier 200 to 800 Volts



| DIMENSIONS | | | | | | |
|------------|--------|-------|------|------|------|--|
| DIM | INCHES | | MM | | NOTE | |
| | MIN | MAX | MIN | MAX | NOTE | |
| Α | 0.134 | 0.150 | 3.40 | 3.80 | | |
| В | 0.075 | 0.083 | 1.90 | 2.10 | | |
| С | 0.163 | 0.175 | 4.15 | 4.45 | | |
| D | 0.201 | 0.220 | 5.10 | 5.60 | | |
| E | 0.041 | 0.061 | 1.05 | 1.55 | | |
| F | 0.028 | 0.053 | 0.70 | 1.35 | | |
| G | 0.006 | 0.010 | 0.15 | 0.25 | | |

Suggested Solder Pad Layout



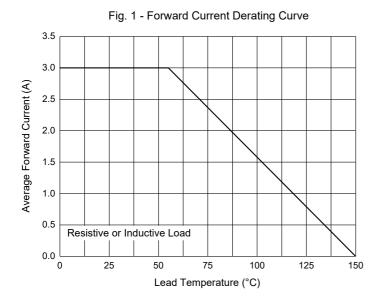
Note:

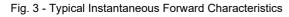
1.Halogen free "Green"products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

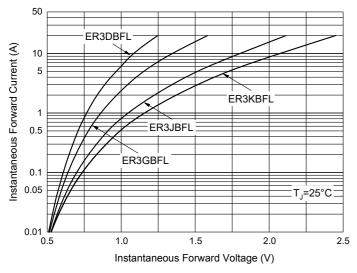
2.High Temperature Solder Exemptions Applied, See EU Directive Annex 7a. 3.Mounted on P.C.B. with 0.3" x 0.3" (8.0 mm x 8.0 mm) copper pad areas.

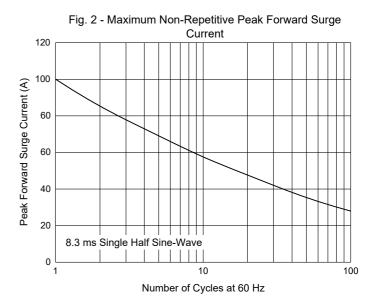


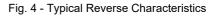
Curve Characteristics

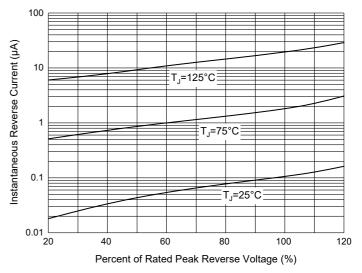














| Device | Packing | |
|-------------------------|-----------------------|--|
| ER3DBFL-TP ~ ER3KBFL-TP | Tape&Reel: 5Kpcs/Reel | |

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