

Ultrafast Recovery Rectifier

DE3L40

| • Low Fo • Low Lea • 150℃ • Minimu | ES at Recovery Time rward Voltage akage Current Operating Junction Temperature m Lot-to-Lot variations for robust de nance and reliable operation | 2 3 DPAK TO-252 package | 2 | | |
|---|---|-------------------------------|------|---|--|
| • Powe • DC/D | TIONS thing power supplies er switching circuits C converter TE MAXIMUM RATINGS(Ta=25°C) PARAMETER | VALUE | UNIT | 0.0 1.0 2.8 7.1 8.00±0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | |
| Vrrm Vrwm Vr | Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage | 400 | V | 1.00 1.00 2-R0.20 | |
| I _{F(AV)} | Average Rectified Forward Current (Rated V_R) | 3 | A | | |
| I _{FSM} | Peak Surge Forward Current | 50 | A | 0.50 | |
| TJ | Junction Temperature | -65~150 | °C | 0.05±0.05 | |
| T _{stg} | Storage Temperature Range | -65~150 | °C | 10.00±0.2 0°~3.0° 0.50 | |
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THERMAL CHARACTERISTICS

| SYMBOL | PARAMETER | МАХ | UNIT |
|---------------------|-------------------------------------|-----|--------------|
| R _{th j-c} | Thermal Resistance,Junction to Case | | °C /W |

ELECTRICAL CHARACTERISTICS

| SYMBOL | PARAMETER | CONDITIONS | МАХ | UNIT |
|----------------|---------------------------------------|--|-----|------|
| VF* | Maximum Instantaneous Forward Voltage | I⊧= 3A ,Tc=25℃ | 1.3 | V |
| I _R | Maximum Instantaneous Reverse Current | V _{RRM} = 400V,Tc=25℃ | 10 | uA |
| trr | Maximum Reverse Recovery Time | I _F =0.5A, I _R =1A | 50 | nS |

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