



650V SiC Schottky Diode

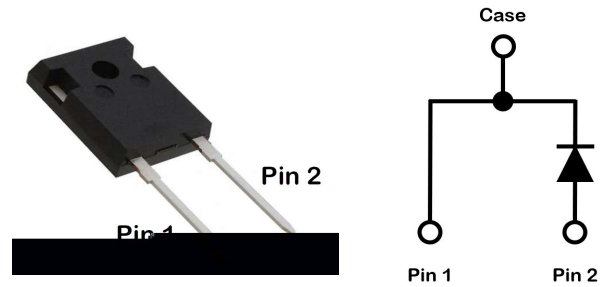
GP3D030A065B

VDC	650 V
Q_C	77 nC
I_F	30 A
$T_{j,max}$	175 °C

Amp+™ Features

Package

Amp+™ Benefits



Amp+™ Applications

Part #	Package	Marking
GP3D030A065B	TO-247-2L	3D030A065



Maximum Ratings

Characteristics	Symbol	Conditions	Values	Unit
	$\int$			

Notes:

Key Characteristics

Final characteristics



Challenges	Opportunities	Conclusions	Values	Uncertainties
1. Complexity: The system is highly complex, involving multiple stakeholders and interconnected components. 2. Uncertainty: There is significant uncertainty regarding future trends, particularly in technology and market demand. 3. Resource Constraints: Limited financial and human resources may hinder the implementation of ambitious plans. 4. Regulatory Changes: Evolving regulations and standards could impact operational efficiency and compliance costs.	1. Technological Advancements: Rapid innovation in AI, automation, and data analytics offers opportunities for process optimization and new product development. 2. Market Expansion: Growing global markets and increasing consumer spending power present opportunities for business growth. 3. Talent Acquisition: Access to a skilled workforce, particularly in STEM fields, is a key opportunity for long-term success. 4. Sustainability Initiatives: Focus on environmental and social governance (ESG) can enhance brand reputation and attract investment.	1. Strategic Alignment: Ensuring all initiatives are aligned with the overall corporate vision and mission is critical. 2. Agility: The organization must maintain the flexibility to adapt quickly to changing market conditions. 3. Collaboration: Fostering a culture of collaboration and knowledge sharing across departments is essential. 4. Continuous Improvement: Implementing a framework for regular feedback and iterative improvement is necessary.	1. Transparency: Maintaining open communication and transparency in decision-making builds trust with stakeholders. 2. Integrity: Upholding high ethical standards and integrity is fundamental to sustainable business practices. 3. Resilience: Building organizational resilience to withstand shocks and disruptions is a core value. 4. Innovation: Encouraging a culture of innovation and experimentation drives progress and competitive advantage.	1. Market Volatility: Fluctuations in market prices and demand can significantly impact revenue and profitability. 2. Technological Disruption: Rapid technological change could render current products or services obsolete. 3. Geopolitical Tensions: International trade tensions and geopolitical instability pose risks to global operations. 4. Climate Change: Increasing regulatory pressure and physical risks associated with climate change are major uncertainties.

Typical Performance

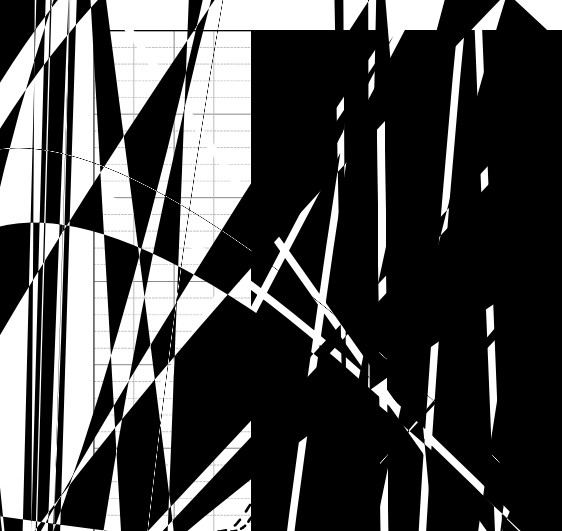


Fig. Forward Chirp Elastic

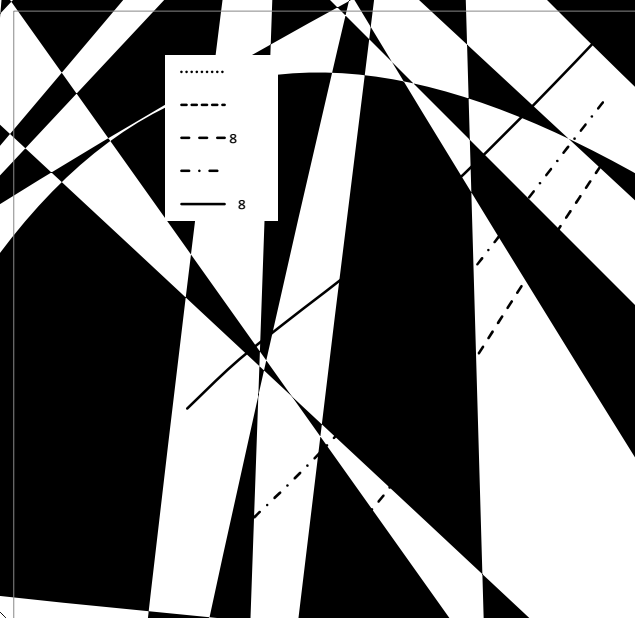


Fig. 2 Fewer Characteristics

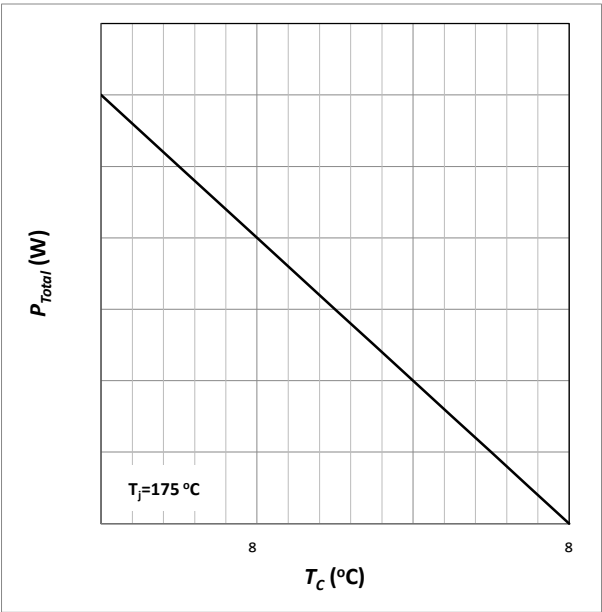


Fig. 3 Power Derating

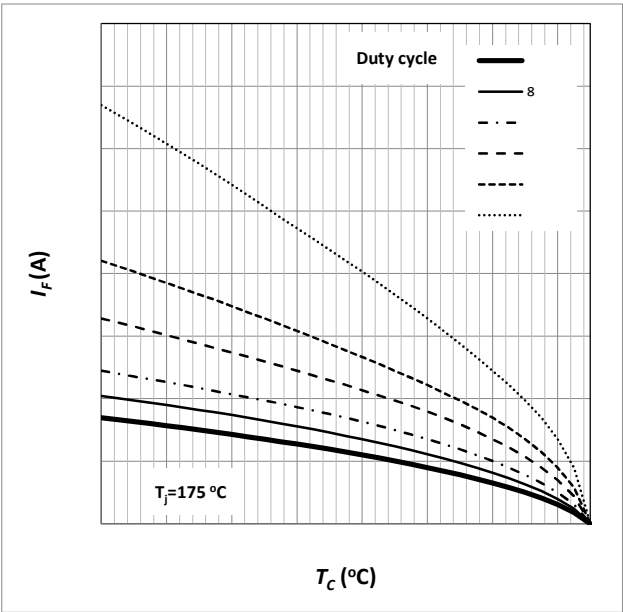


Fig. 4 Current Derating

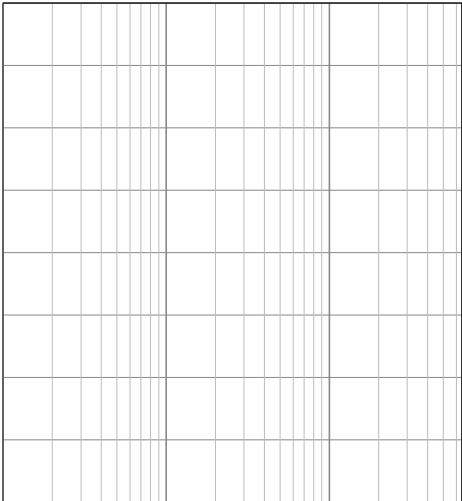


Fig. 5 Capacitance

Fig. 6 Capacitive Charge

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RoHS Compliance

REACH Compliance