- 650-Volt SiC JBS Rectifier
- Zero Reverse Recovery
- Positive Temperature Coefficient on VF
- Temperature-Independent Switching Behavior
- Extremely Fast Switching
- Extremely Low Leakage Current

T

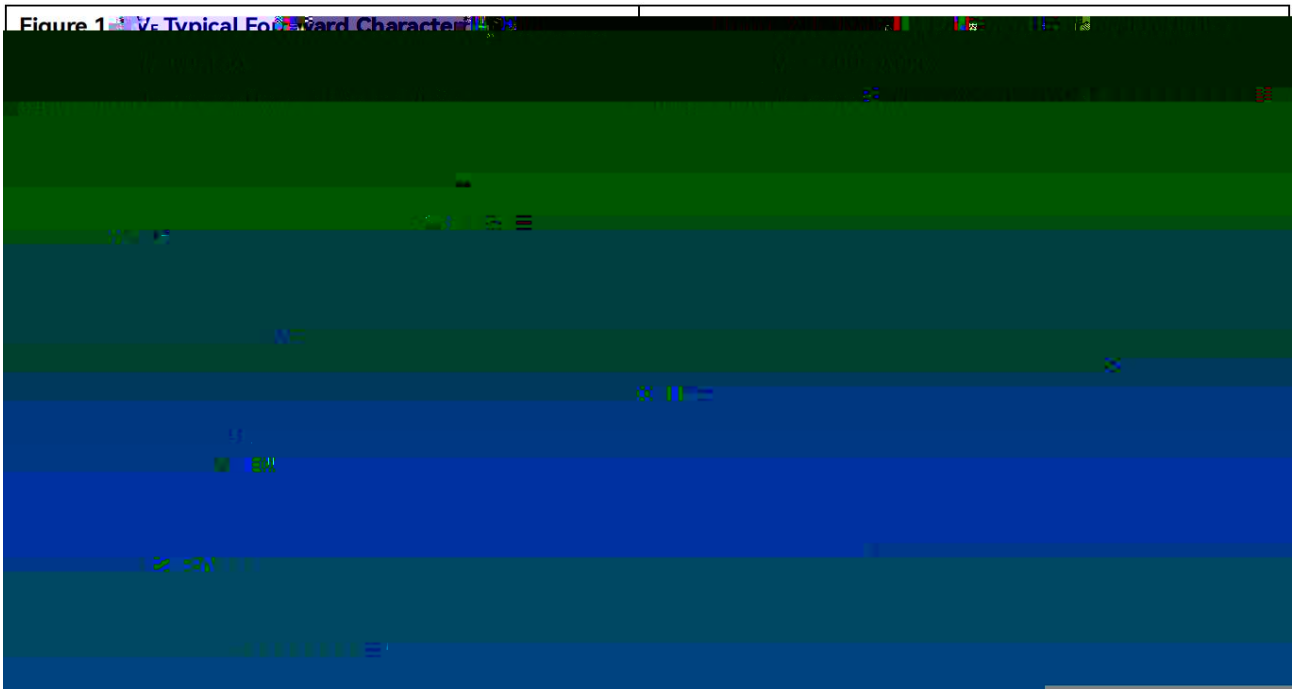
- Uninterruptible power supply
- Switch mode power supply
- Power factor correction
- Solar inverter

- High-speed switching
- Low heat dissipation requirements
- Reduced EMI
- High-reliability

| | | | | |
|---|---|---|---|---|
| Maximum Repetitive Peak Reverse Voltage | | | 650 | |
| Continuous Forward Current for Rth(j- c,max) | $T_C$ = 25 | | 27 | |
| | $T_C$ = 110 | | 17 | |
| | $T_C$ = 147 | | 10 | |
| Peak Forward Surge Current,8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | | | 75 | |
| Operating Temperature Range | | | 175 | |
| Storage Temperature Range | | | -55 to +175 | |
| Typical Thermal Resistance(Note1) | | | 1.55 | |

Forward Voltage Dro o

Figure 1. $V_F$ Typical Forward Characteristics



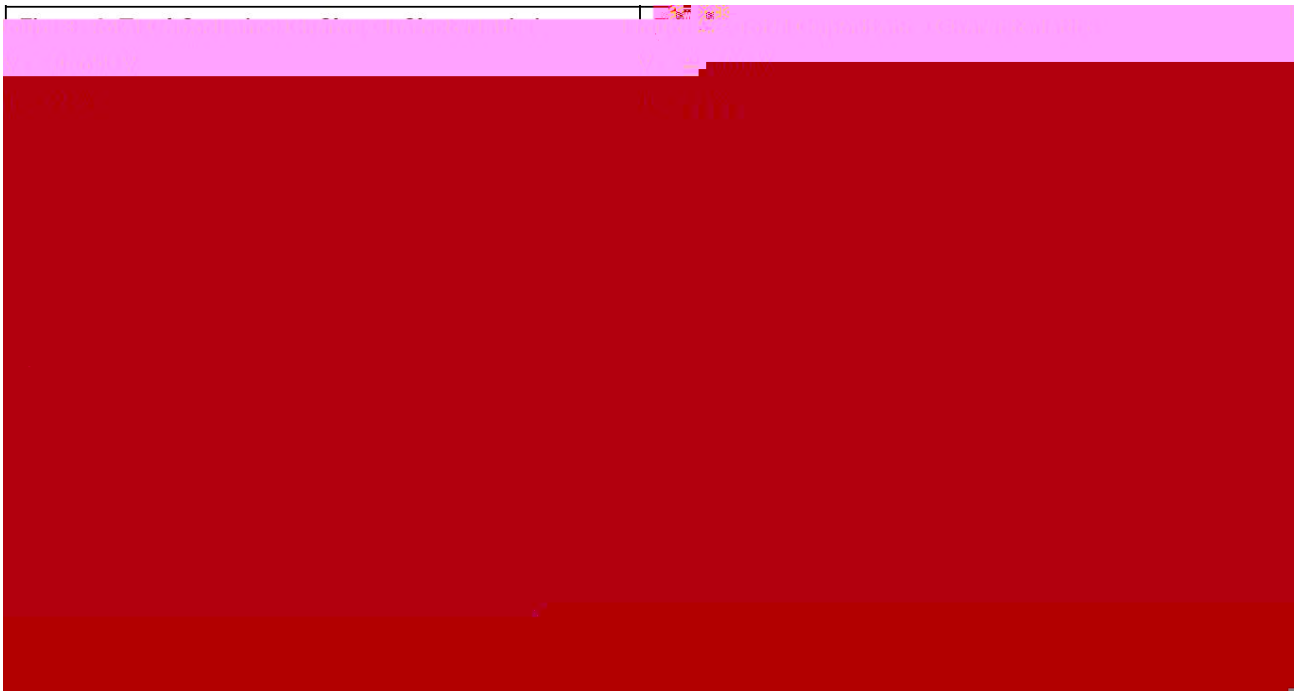


Figure 5. Power dissipation as function of case temperature

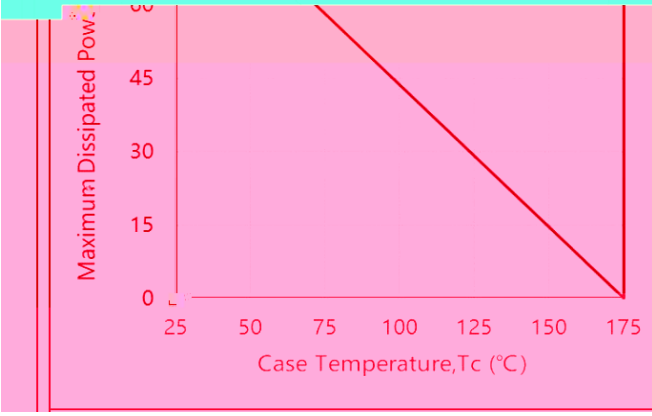



Figure 6. Capacitance Stored Energy

$V_R$ = 0~650 V

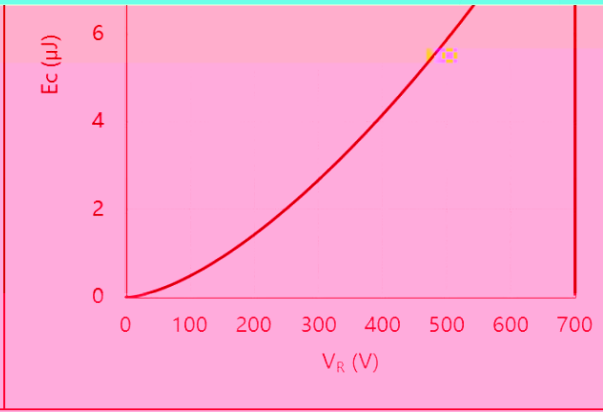



Figure 7. Max. transient thermal impedance, $Z_{th,j-c}=f(t_p)$, parameter: $D=t_p/T$



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# Disclai