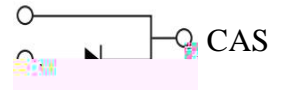


- 650V schottky Rectifier
- Zero Reverse Recovery Current / Zero forward recovery
- High-Frequency Operation
- Temperature-Independent Switching Behavior
- Low forward voltage
- Positive Temperature Coefficient on V_F
- Increased Creepage/Clearance Distance



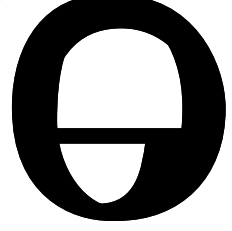
TO-220-2L

- Replace Bipolar with Unipolar Rectifiers
- Essentially No Switching Losses
- High Efficiency
- Reduction of Heat Sink Requirements
- Parallel Devices Without Thermal Runaway



- Switch Mode Power Supplies
- Power Factor Correction
- Motor Drives
- AC/DC converters

		($T_C = 135$)			
S1D004065A	650V	7A	9.5nC	S1D004065A	TO-220-2L



(Tc = 25°C unless otherwise specified)

V_{RRM}	Repetitive Peak Reverse Voltage	650	V	-
V_{RS}				

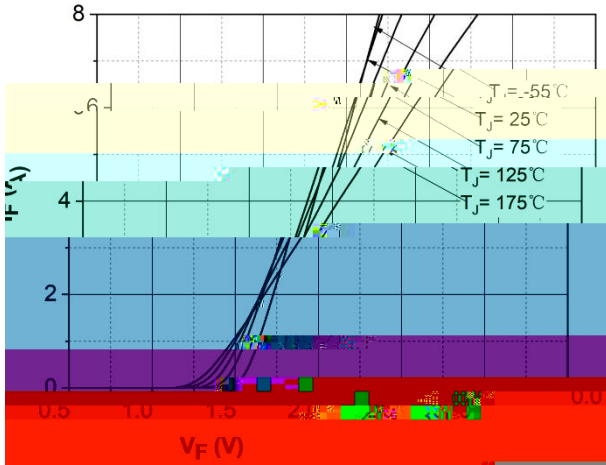


Figure 1. Forward Characteristics

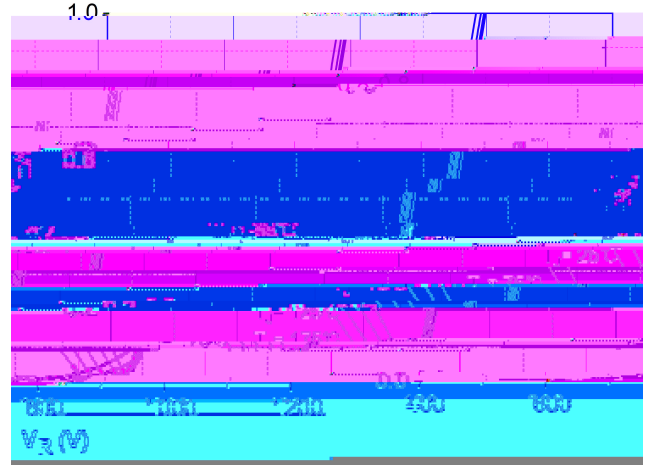


Figure 2. Reverse Characteristics

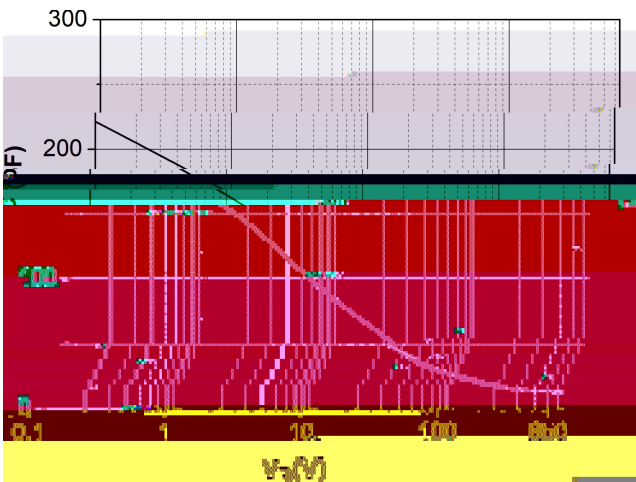


Figure 3. Capacitance vs. Reverse Voltage

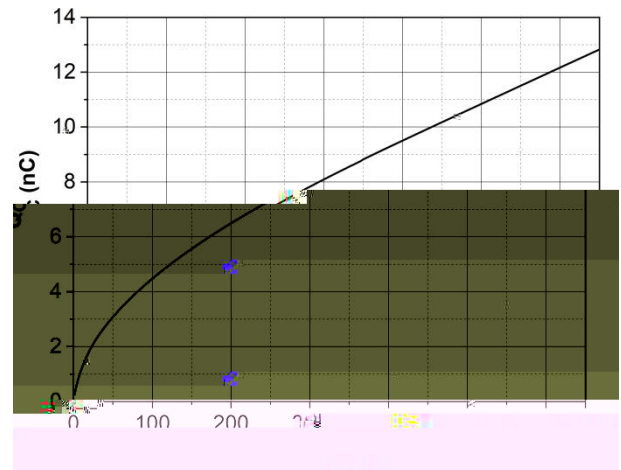


Figure 4. Recovery Charge vs. Reverse Voltage

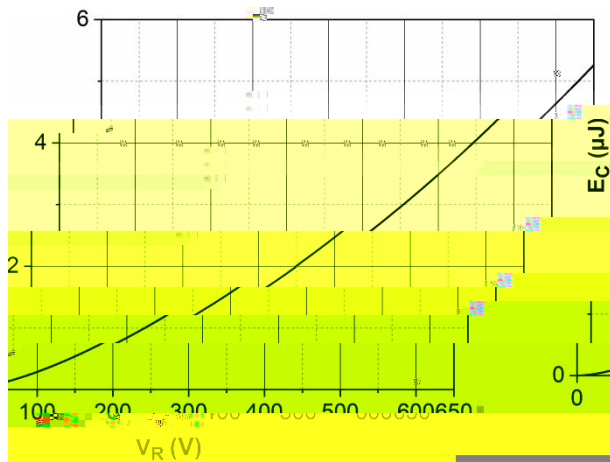


Figure 5. Typical Capacitance Stored Energy

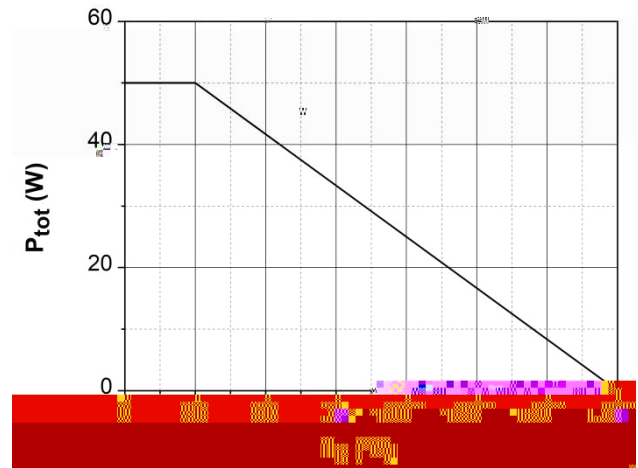


Figure 6. Power Derating

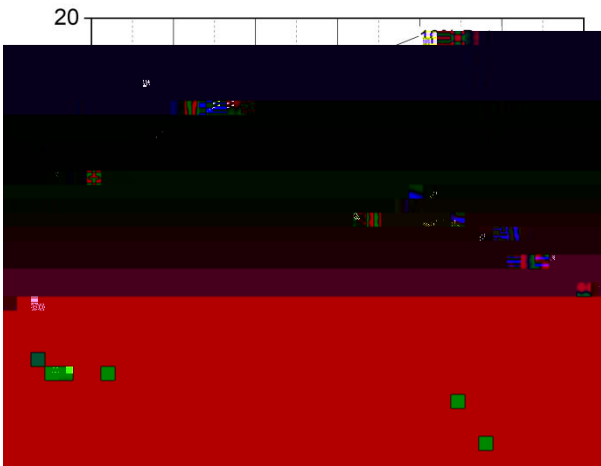


Figure 7. Current Derating

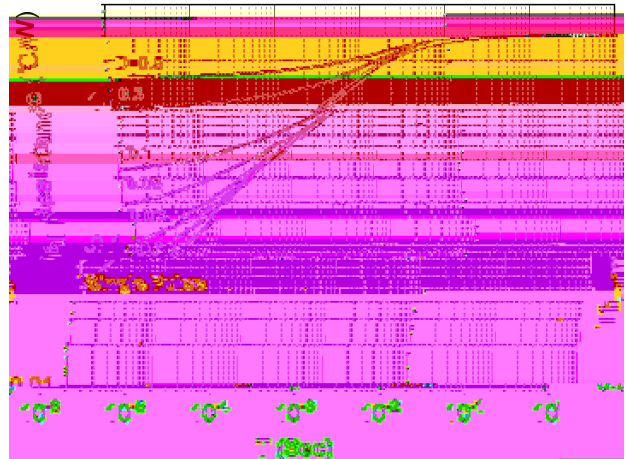
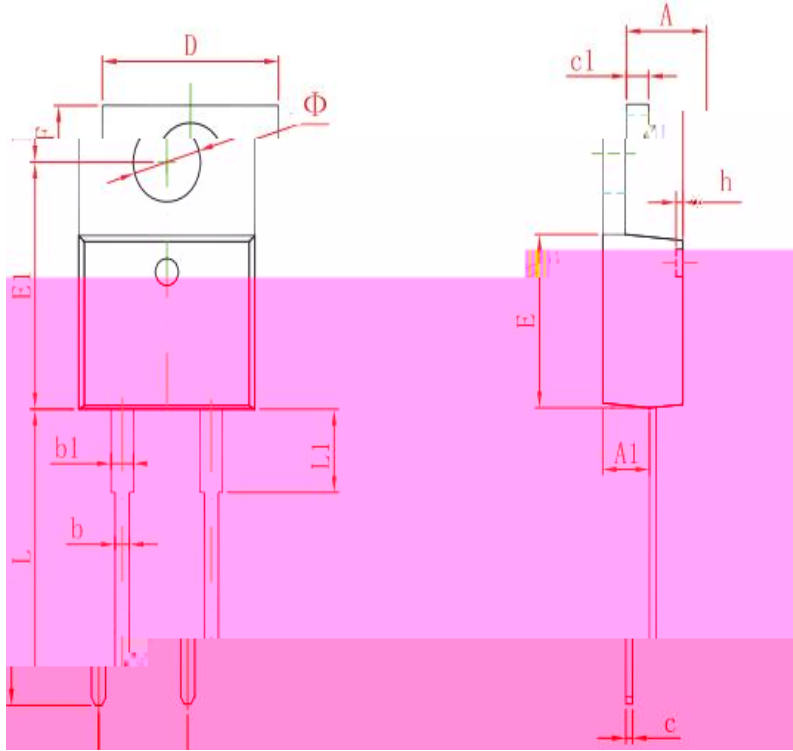


Figure 8. Transient Thermal Impedance

(TO-220-2L)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	4.450	4.750	0.175	0.187
A1	0.520	2.820	0.099	0.111
b	0.710	0.910	0.028	0.036

7. Except as otherwise explicitly approved by Sichain in a written document signed by authorized representatives of Sichain, Sichain' products may not be urn e