



## Electrical Characteristics

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	Typ.	Max.
Forward voltage drop	$V_F$	V	$I_F=15A, T_j=25^\circ C$	1.35	1.55
			$I_F=15A, T_j=175^\circ C$	1.85	-
Reverse leakage current	$I_R$	$\mu A$	$V_R=1200V, T_j=25^\circ C$	3	20
			$V_R=1200V, T_j=175^\circ C$	19	-
Total capacitive charge	$Q_C$	nC	$V_R=800V, T_j=25^\circ C$ , $Q_C = \int_0^{V_R} C(V)dV$	91	-
Total capacitance	C	pF	$V_R=0V, f=1MHZ$	1280	-
			$V_R=400V, f=1MHZ$	87	-
			$V_R=800V, f=1MHZ$	64	-
Capacitance Stored Energy	$E_C$	$\mu J$	$V_R=800V$	23	-

## Thermal Characteristics $T_a=25$ Unless otherwise specified

PARAMETER	SYMBOL	UNIT	VALUE
Thermal resistance	$R_{J-C}$	$^\circ C/W$	0.88

## Typical Characteristics

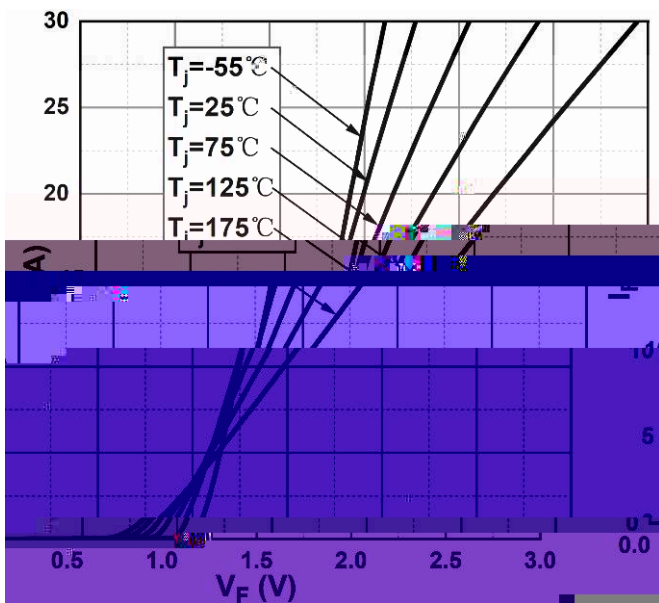


Figure 1. Forward Characteristics

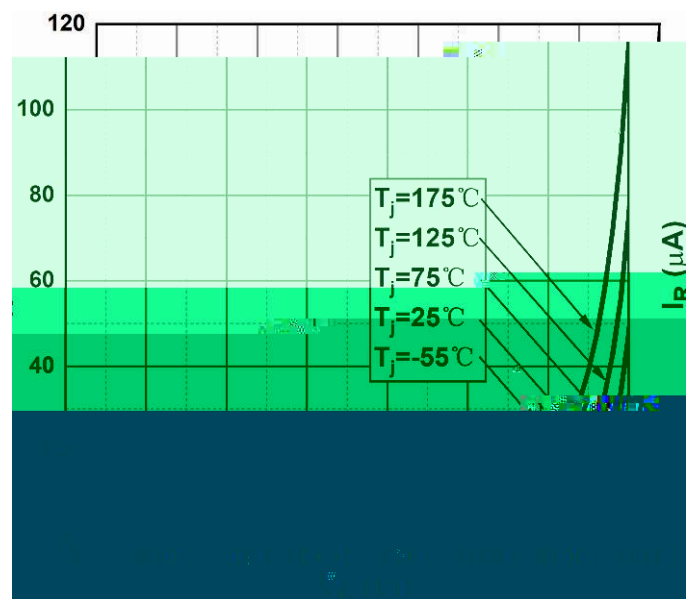


Figure 2. Reverse Characteristics



Figure 3. Capacitance vs. Reverse Voltage

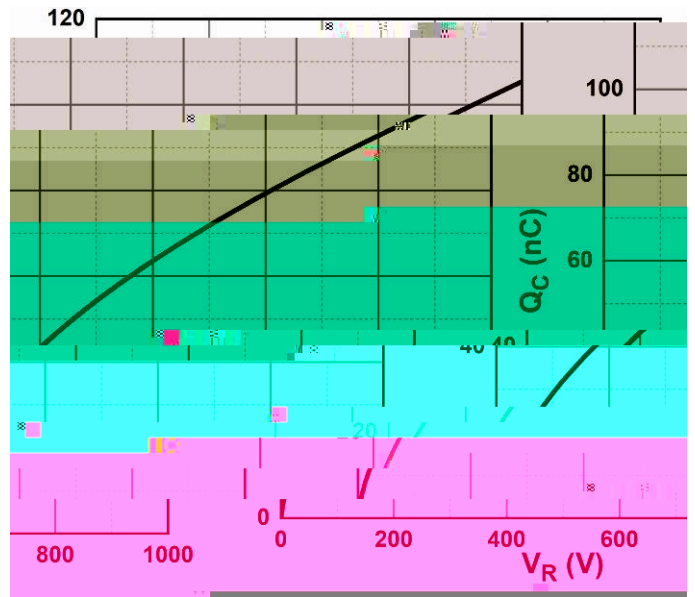


Figure 4. Total Capacitance Charge vs. Reverse Voltage

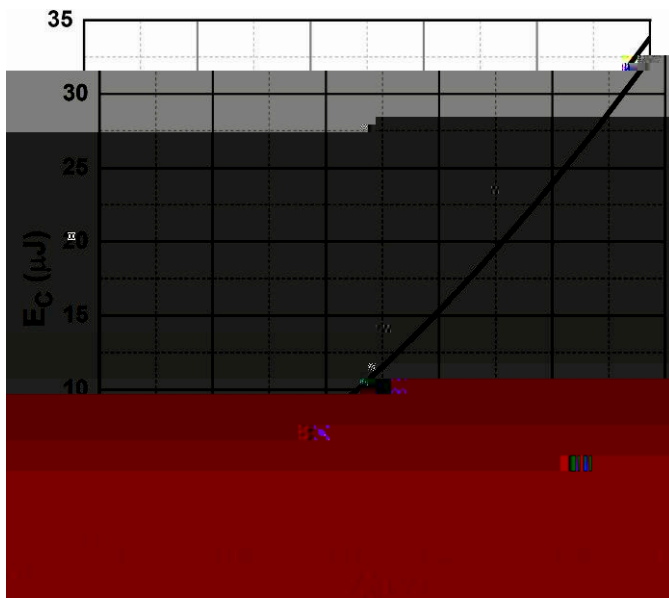


Figure 5. Capacitance Stored Energy

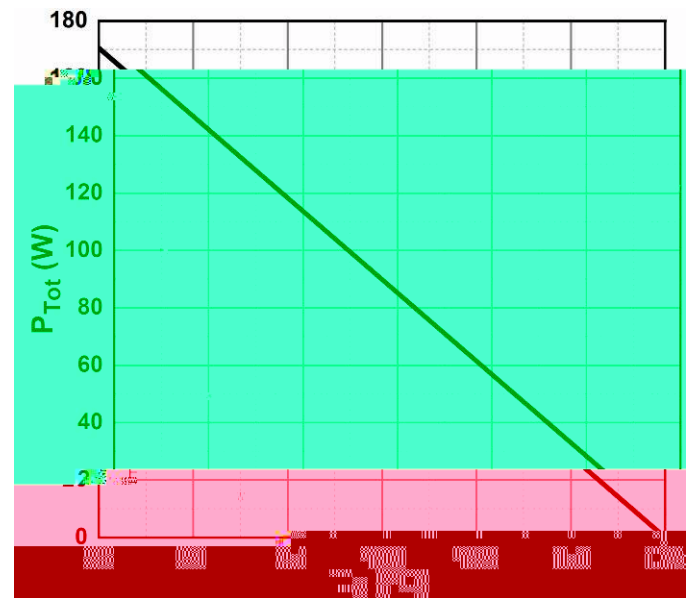


Figure 6. Power Derating

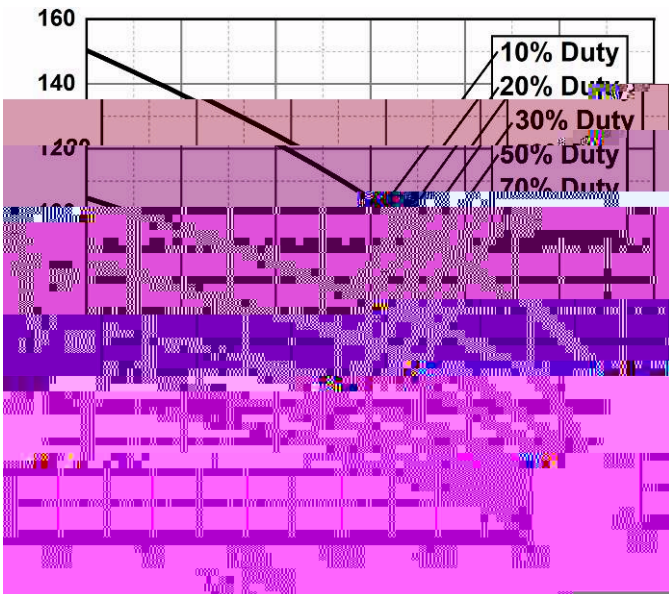


Figure 7. Current Derating

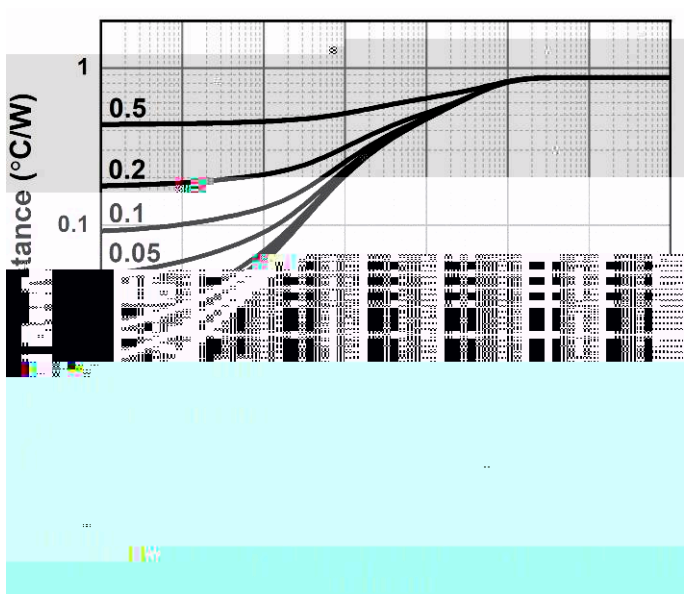
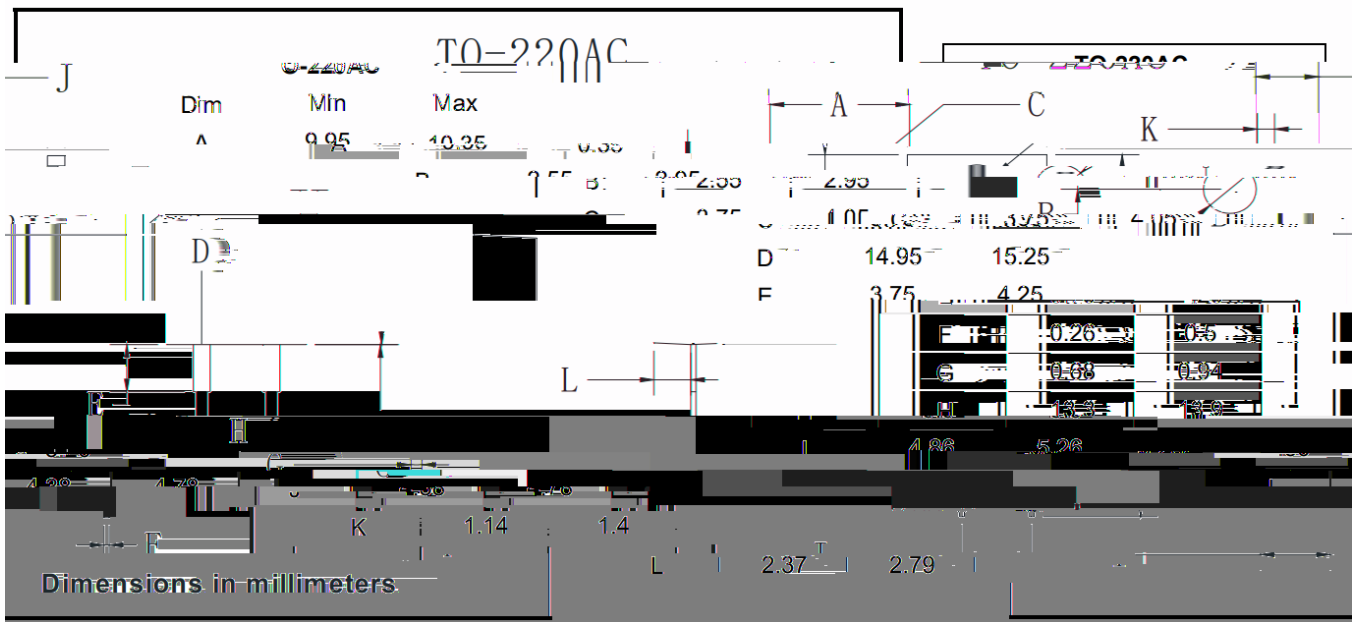


Figure 8. Transient Thermal Impedance

## Outline Dimensions





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