DYNAMIC CHARACTERISTICS

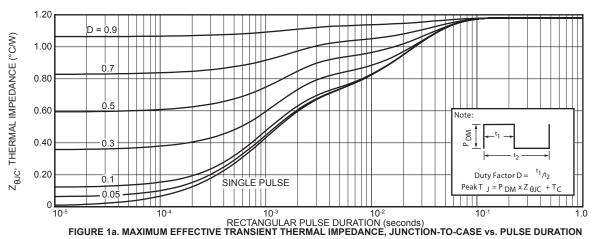
APT15DQ100K(G)

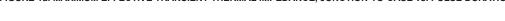
Symbol	Characteristic	Test Conditions	MIN	ТҮР	MAX	UNIT
t _{rr}	Reverse Recovery Time $I_F = 1A$, $di_F/dt = -100A/\mu s$, $V_R = 30V$, $T_J = 25^{\circ}C$		-	20		nc
t _{rr}	Reverse Recovery Time	I _F = 15A, di _F /dt = -200A/μs V _R = 667V, T _C = 25°C	-	235		ns
Q _{rr}	Reverse Recovery Charge		-	185		nC
I _{RRM}	Maximum Reverse Recovery Current		-	3	-	Amps
t _{rr}	Reverse Recovery Time	I _F = 15A, di _F /dt = -200A/μs V _R = 667V, T _C = 125°C	-	300		ns
Q _{rr}	Reverse Recovery Charge		-	810		nC
I _{RRM}	Maximum Reverse Recovery Current		-	6	-	Amps
t _{rr}	Reverse Recovery Time	I _F = 15A, di _F /dt = -1000A/μs V _R = 667V, T _C = 125°C	-	125		ns
Q _{rr}	Reverse Recovery Charge		-	1150		nC
I _{RRM}	Maximum Reverse Recovery Current		-	19		Amps

THERMAL AND MECHANICAL CHARACTERISTICS

Symbol	Characteristic / Test Conditions	MIN	TYP	MAX	UNIT
R _{θJC}	Junction-to-Case Thermal Resistance			1.18	°C/W
W _T	Package Weight		0.07		οz
			1.9		g
Torque	Maximum Mounting Torque			10	lb•in
				1.1	N•m

Microsemi reserves the right to change, without notice, the specifications and information contained herein.





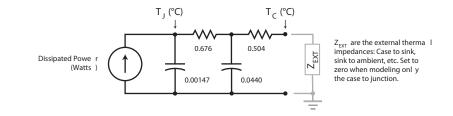
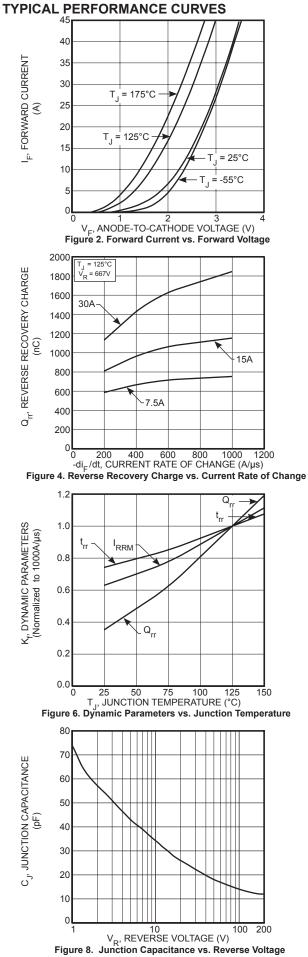


FIGURE 1b, TRANSIENT THERMAL IMPEDANCE MODEL



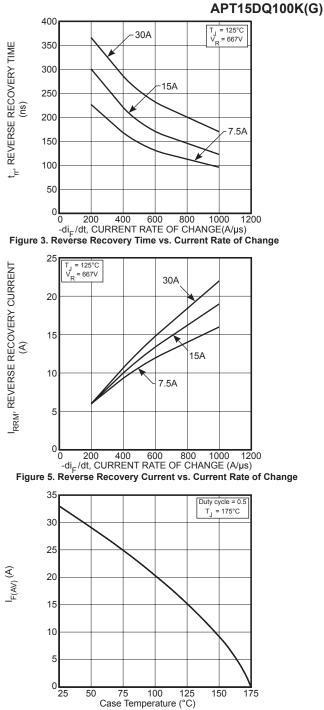
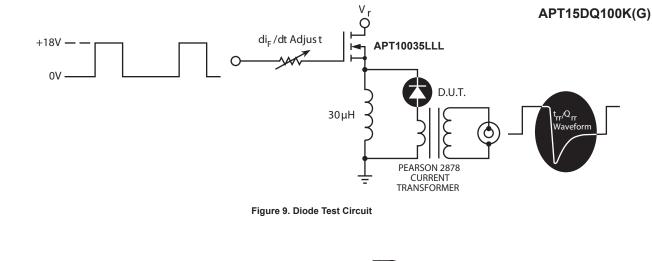
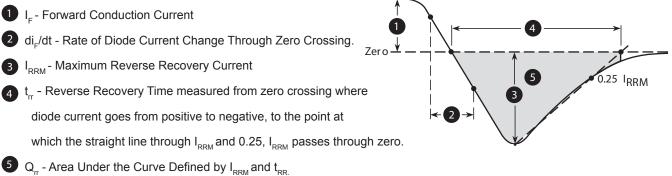
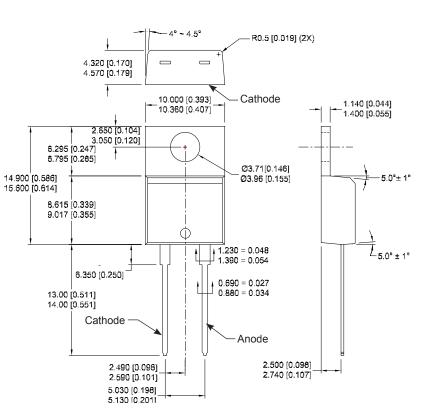


Figure 7. Maximum Average Forward Current vs. CaseTemperature











Dimensions in millimeters and [inches]

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