

#### MAXIMUM RATINGS(TA=25°C unless otherwise noted)

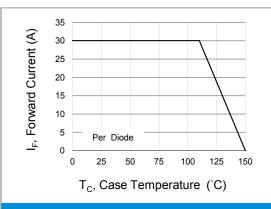
PARAMETER	SYMBOL	VALUE	UNIT	
Maximum recurrent peak reverse voltage		Vrrm	300	V
Maximum rms voltage		Vrms	210	V
Maximum dc blocking voltage		VR	300	V
Maximum average forward rectified current	rectified current per device per diode		60 30	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	IFSM	400	А
Typical thermal resistance per diode	(Note 1)	Røjc	1.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note : 1. Mounted on semi-infinite heatsink.

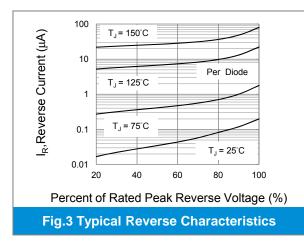


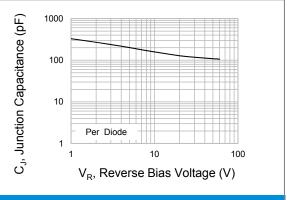
#### ELECTRICAL CHARACTERISTICS(TA=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage (per diode)	Vbr	I R=0.5mA		300	-	-	V
Instantaneous forward voltage (per diode)	VF	IF=5A IF=15A IF=30A	TJ=25°C	- - -	0.77 0.9 -	- - 1.25	V
		IF=5A IF=15A IF=30A	TJ=125℃	- - -	0.62 0.77 0.91	- - -	V
Reverse leakage current (per diode)	IR	VR=240V		-	0.1	-	μA
		Vr=300V	Tյ=25°C Tյ=125°C	-	- 25	5 -	μΑ μΑ
Reverse recovery time	Trr	I		-	-	35	ns
		I F=0.5A I R=1A I RR=0.25A		-	-	45	ns
				-	35	-	ns
Peak recovery current	I RRM	I		-	7	-	А
Reverse recovery charge	QRR			-	85	-	nC

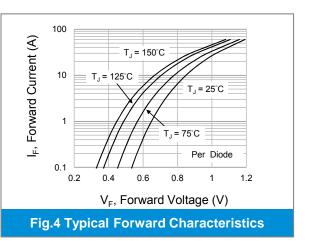


## Fig.1 Forward Current Derating Curve

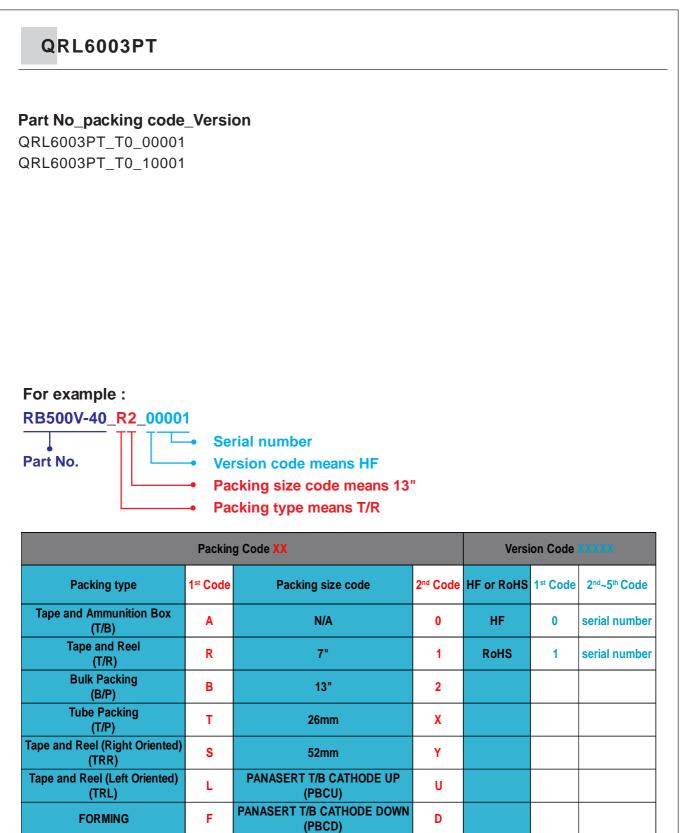




## Fig.2 Typical Junction Capacitance











# QRL6003PT

# Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.