# DC COMPONENTS CO., LTD.

#### RECTIFIER SPECIALISTS

DLQ4148 DLQ4448 DLQ4150 DLQ4151

#### TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODES

VOLTAGE RANGE - 50 to 100 Volts

#### **FEATURES**

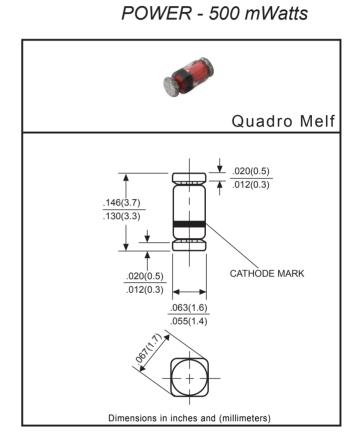
- \* Fast switching speed
- \* Silicon epitaxial planar diodes
- \* Low power loss, high efficiency
- \* Low leakage
- \* Hihj surge forward current capability

#### **MECHANICAL DATA**

- \* Case: Glass sealed case
- \* Terminals:Solder plated, solderable per MIL-STD-202E, Method 208 guaranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any
- \* Weight: 0.05 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

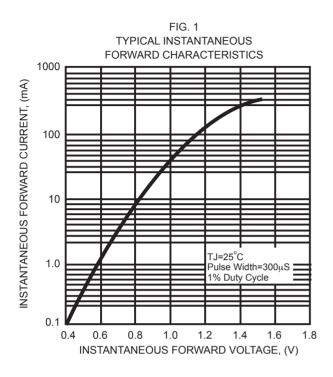


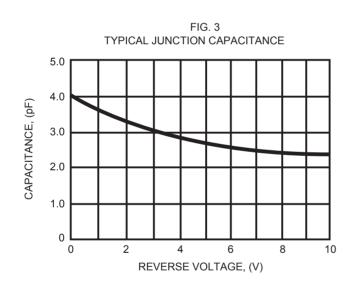
	SYMBOL	DLQ4148	DLQ4448	DLQ4150	DLQ4151	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	100	100	50	75	V
Maximum Average Forward Current	IFAV	150	150	200	150	mA
Maximum Power Dissipation TA = 25°C	Ptot	500	500	500	500	mW
Maximum Forward Voltage	VF/@IF	1.0/10	1.0/100	1.0/200	1.0/50	V/mA
Maximum Reverse Current	IR/@VR	5/75	5/75	0.1/50	0.05/50	μA/V
Maximum Reverse Recovery Time	trr	4.0	4.0	4.0	2.0	nS
Typical Thermal Resistance	Rəja	300	350	350	350	°C/W
Typical Junction Capacitanjce	CJ	4.0	4.0	4.0	2.0	pF
Surge Forward Current, t < 1µs		2000	2000	4000	2000	
t < 1s	IFSM		500			mA
Operating and Storage Temperature Range	TJ,TSTG	-65 to +175				°C

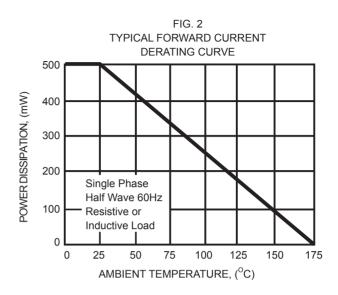
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NOTES: 1. CJ at VR = 0, f = 1 MHz. 2. From IF = 10mA to IR = 1mA, VR = 6Volts, RL =100Ω

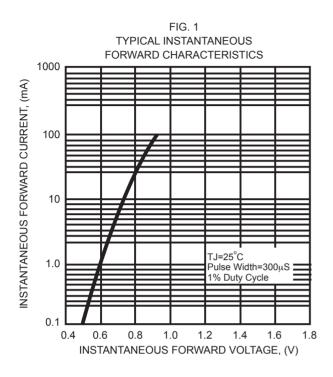
# **RATING AND CHARACTERISTIC CURVES (DLQ4148)**

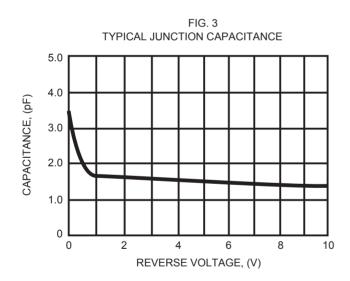


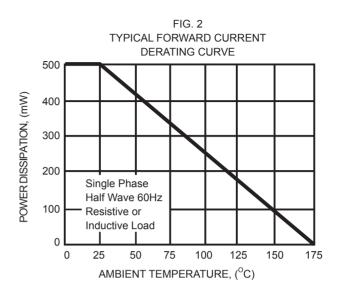




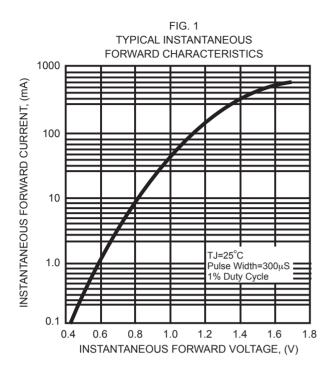
# **RATING AND CHARACTERISTIC CURVES (DLQ4448)**

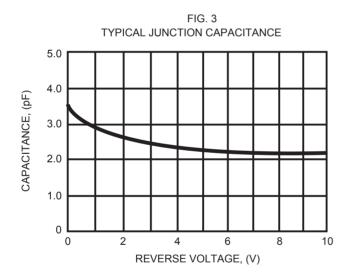


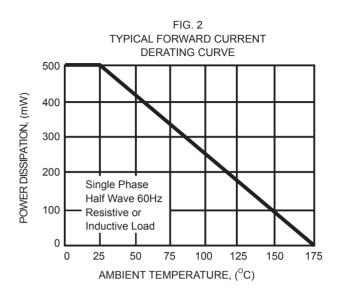




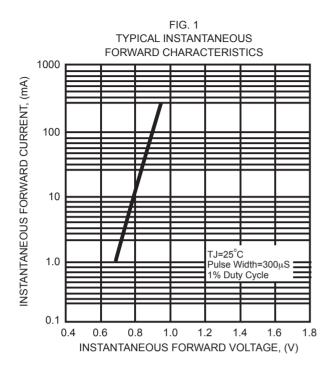
### **RATING AND CHARACTERISTIC CURVES (DLQ4150)**

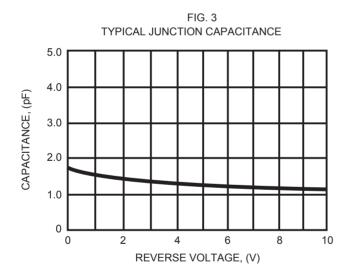


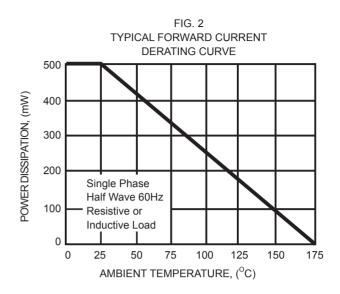




# **RATING AND CHARACTERISTIC CURVES (DLQ4151)**







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