DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

DLQ4148 DLQ4448 DLQ4150 DLQ4151

TECHNICAL SPECIFICATIONS OF SURFACE MOUNT SWITCHING DIODES

VOLTAGE RANGE - 50 to 100 Volts

FEATURES

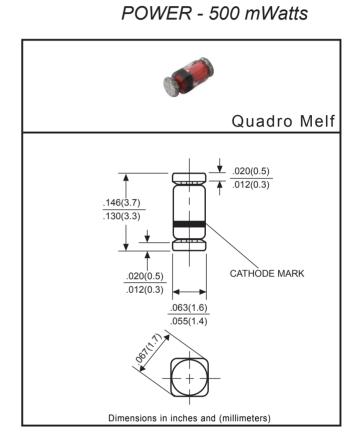
- * Fast switching speed
- * Silicon epitaxial planar diodes
- * Low power loss, high efficiency
- * Low leakage
- * Hihj surge forward current capability

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%.

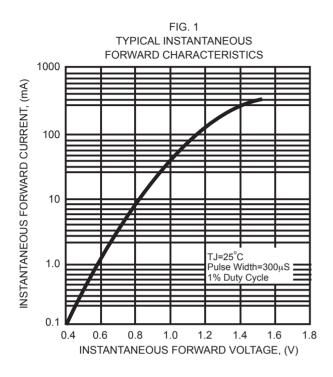


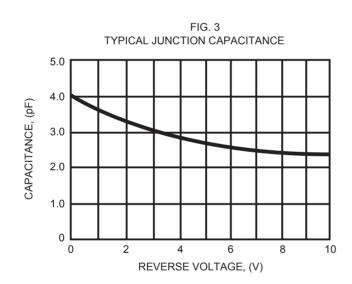
	SYMBOL	DLQ4148	DLQ4448	DLQ4150	DLQ4151	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	100	100	50	75	V
Maximum Average Forward Current	IFAV	150	150	200	150	mA
Maximum Power Dissipation TA = 25°C	Ptot	500	500	500	500	mW
Maximum Forward Voltage	VF/@IF	1.0/10	1.0/100	1.0/200	1.0/50	V/mA
Maximum Reverse 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

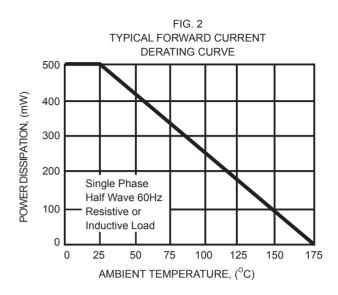
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NOTES: 1. CJ at VR = 0, f = 1 MHz. 2. From IF = 10mA to IR = 1mA, VR = 6Volts, RL =100Ω

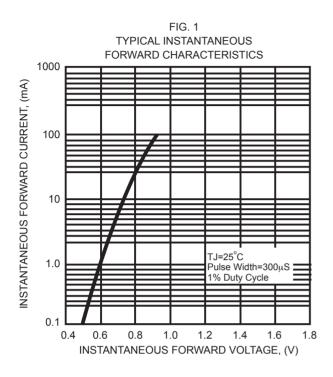
RATING AND CHARACTERISTIC CURVES (DLQ4148)

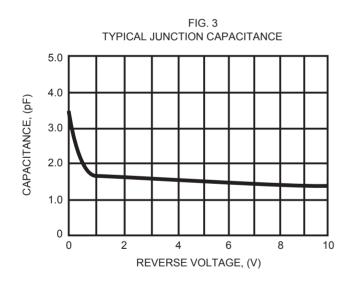


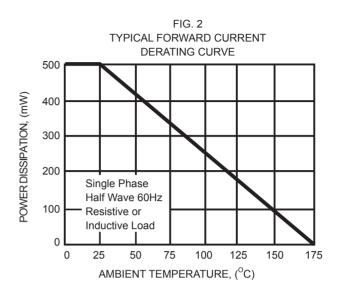




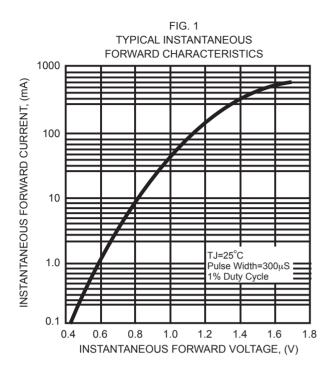
RATING AND CHARACTERISTIC CURVES (DLQ4448)

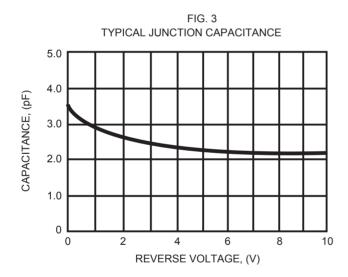


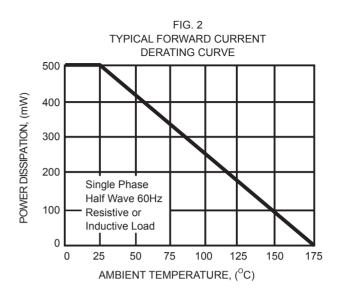




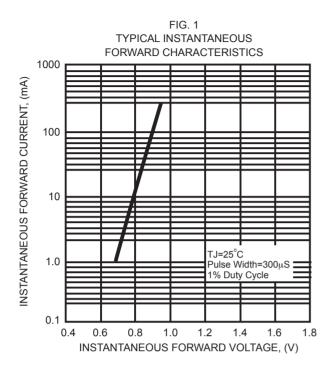
RATING AND CHARACTERISTIC CURVES (DLQ4150)

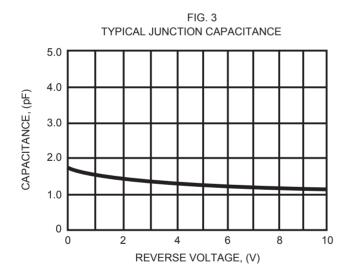


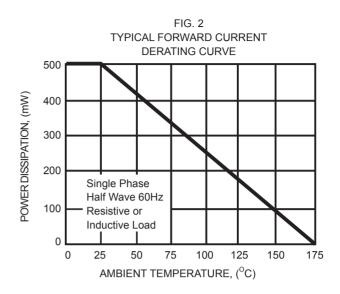




RATING AND CHARACTERISTIC CURVES (DLQ4151)







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