

DIOTEC ELECTRONICS CORP
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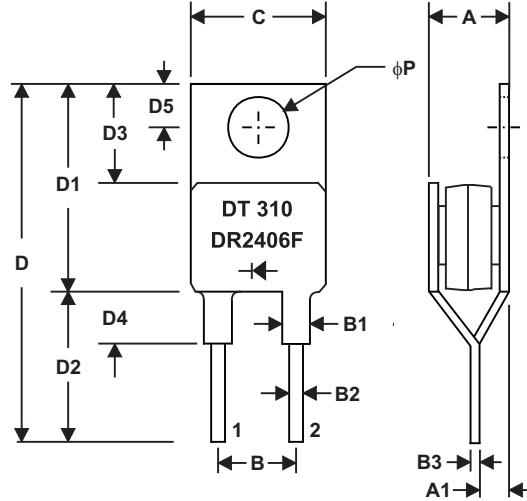
Looking For: MR2400F, MR2401F,
 MR2402F, MR2404F, MR2406F
 Alternatives?

25 AMP SOFT RECOVERY FAST SWITCHING TAB MOUNTED DIODES

FEATURES

- Suggested Alternative For MR2400F, MR2401F, MR2404F, and MR2406F
- True Soft Recovery Characteristic With No Ringing, Spikes, or Overshoot
- HIGH Frequency: 250 kHz
FAST Recovery: 100nS - 150nS
- Unmatched Performance - Minimal RF/EMI, Reduced Power Losses, Extremely Cool Operation Increased Power Supply Efficiency
- VOID FREE Vacuum Die Soldering For Maximum Mechanical Strength And Heat Dissipation (Solder Voids: Typical < 2%, Max. < 10% of Die Area)

MECHANICAL SPECIFICATION



PIN 1 CATHODE
 PIN 2 ANODE

Sym	Min	Max
A	0.284	0.310
A1	0.080	0.115
B	0.170	0.210
B1	0.060	0.090
B2	0.025	0.045
B3	0.023	0.029
C	0.380	0.420
D		1.187
D1	0.560	0.625
D2		0.562
D3	0.230	0.270
D4		0.200
D5	0.100	0.120
φP	0.139	0.147

ALL DIMENSIONS IN INCHES

RoHS COMPLIANT

MECHANICAL DATA

- Structure: Epoxy encapsulated diode body with metal tabs
- Finish: All external surfaces are corrosion resistant and readily solderable
- Maximum Soldering Temperature: 250 °C 3/8" from case for 10 seconds
- Mounting: Lead or chassis mounted, same configuration as TO-220AB
- Mounting Torque: 8 in-lbs Max.
- Polarity: Cathode to Tab With Hole; Reverse polarity available by adding the suffix "R" to the P/N (e.g., DR2400FR)
- Weight: 1.2 Ounces (3.6 Grams), approximately

MAXIMUM RATINGS & ELECTRICAL CHARACTERISTICS

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

PARAMETER (TEST CONDITIONS)	SYMBOL	RATINGS					UNITS
		DR 2400F	DR 2401F	DR 2402F	DR 2404F	DR 2406F	
Series Number							
Maximum DC Blocking Voltage	V _{RM}	50	100	200	400	600	VOLTS
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	
Maximum Peak Recurrent Reverse Voltage	V _{RRM}	50	100	200	400	600	
Average Forward Rectified Current	I _O	25					AMPS
Peak Forward Surge Current (8.3mS single half sine wave superimposed on rated load)	I _{FSM}	400					
Maximum Forward Voltage at 25 Amps DC	V _{FM}	1.2 (Typical 1.1)					VOLTS
Maximum Average DC Reverse Current At Rated DC Blocking Voltage	I _{RM}	1.0 50					μA
Typical Thermal Resistance, Junction to Case	R _{θJC}	0.8					°C/W
Maximum Reverse Recovery Time - Soft Recovery	T _{RR}	150 (Typ. 100)					nSec
Junction Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +150					°C