

| OUTPUT (LOAD) SPECIFICATIONS |  |  |  |
| :---: | :---: | :---: | :---: |
| (See Note 2) Min | Typ | Max | Units |
| Continuous Load Current (See Fig. 3) |  |  |  |
| KD and LD series without heat sink |  | 5 | Adc |
| LD series with heat sink |  | 10 | Adc |
| Leakage Current @ $\mathrm{V}_{\text {LOAD }}=60 \mathrm{Vdc}$ |  |  |  |
| KD00CK, KD20CK |  | 100 | $\mu \mathrm{A}$ |
| LD00CM, LD20CM |  | 100 | $\mu \mathrm{A}$ |
| KD02CK, KD22CK |  | 2 | mA |
| LD02CM, LD22CM |  | 2 | mA |

Output Voltage Drop

| KD00CK, KD02CK | .60 | Vdc |
| :---: | :---: | :---: |
| KD20CK, KD22CK | .70 | Vdc |
| LD00CM, LD02CM @10A | 1.2 | Vdc |
| LD20CM, LD22CM @10A | 1.4 | Vdc |
| Continuous Operating Load Voltage | 60 | Vdc |
| Transient Blocking Voltage @25 |  |  |

ON Resistance, $\mathrm{I}_{\text {LOAD }}=100 \mathrm{~mA}, \mathrm{~T}_{\mathrm{J}}=25^{\circ} \mathrm{C}$, (See Note 3)

| KD00CK, KD02CK | . 075 | Ohm |
| :---: | :---: | :---: |
| LD00CM, LD20CM | . 075 | Ohm |
| KD20CK, KD22CK | . 100 | Ohm |
| LD20CM, LD22CM | . 100 | Ohm |
| Turn-On Time (See Fig. 5) | 5 | ms |
| Turn-Off Time (See Fig. 5) | 2 | ms |
| Electrical System Spike @ $25^{\circ} \mathrm{C}$ | $\pm 600$ | Vpk |
| Output Capacitance at $25 \mathrm{Vdc}, 100 \mathrm{KHz}$ | 1600 | pF |
| Isolation (Input to Output) |  |  |
| KD00CK, KD20CK | 10 | pF |
| LD00CM, LD20CM | 10 | pF |
| KD02CK, KD22CK | 15 | pF |
| LD02CM, LD22CM | 15 | pF |
| Dielectric Strength 1000 |  | Vac |
| Insulation Resistance @ $500 \mathrm{Vdc} 10^{9}$ |  | Ohms |
| Output Junction Temperature <br> @ $I_{\text {LOAD }}=I_{\text {max rated }}$ | 130 | ${ }^{\circ} \mathrm{C}$ |
| Maximum Junction Temperature | 150 | ${ }^{\circ} \mathrm{C}$ |
| Thermal Resistance Junction to Ambient ( $\theta_{\text {JA }}$ ) | 30 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |
| Thermal Resistance Junction to Case ( $\theta_{\mathrm{Jc}}$ ) | 7 | ${ }^{\circ} \mathrm{C} / \mathrm{W}$ |

## BLOCK DIAGRAM


no status

## MECHANICAL SPECIFICATION

DIMENSIONS ARE SHOWN IN INCHES (MILLIMETERS)




OVERLOAD CURRENT VS TIME TO TRIP (TYPICAL)
KD20CK, KD22CK, LD20CM, LD22CM FIGURE 7


## SERIES LIMIT BIAS RESISTOR VS

 BIAS VOLTAGEFIGURE 8 (See Note 1)

short-circuit load with relay on


TYPICAL TRIP CURRENT CHARACTERISTICS FOR SHORT CIRCUIT CONDITIONS

FIGURE 9

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