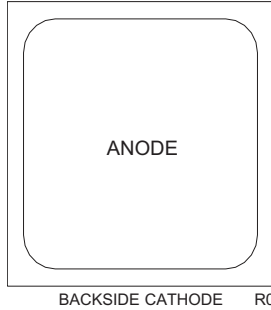


# CPD16-CMR1U-06M

## Ultra Fast Rectifier Die

### 1.0 Amp, 600 Volt

The CPD16-CMR1U-06M is a silicon 1.0 Amp, 600 Volt ultra fast recovery rectifier ideal for all types of commercial, industrial, entertainment, and computer applications.



#### MECHANICAL SPECIFICATIONS:

Die Size	51 x 51 MILS
Die Thickness	14 MILS
Anode Bonding Pad Size	34 x 34 MILS
Top Side Metalization	Ni/Au – 5,000Å/2,000Å
Back Side Metalization	Ni/Au – 5,000Å/2,000Å
Scribe Alley Width	2.0 MILS
Wafer Diameter	4 INCHES
Gross Die Per Wafer	4,250

#### MAXIMUM RATINGS: ( $T_A=25^\circ\text{C}$ )

	SYMBOL		UNITS
Peak Repetitive Reverse Voltage	$V_{RRM}$	600	V
DC Blocking Voltage	$V_R$	600	V
RMS Reverse Voltage	$V_{R(RMS)}$	420	V
Average Forward Current	$I_O$	1.0	A
Peak Forward Surge Current, $t_p=8.3\text{ms}$	$I_{FSM}$	30	A
Operating and Storage Junction Temperature	$T_J, T_{stg}$	-65 to +150	$^\circ\text{C}$

#### ELECTRICAL CHARACTERISTICS: ( $T_A=25^\circ\text{C}$ )

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
$I_R$	$V_R=600\text{V}$		5.0	$\mu\text{A}$
$V_F$	$I_F=1.0\text{A}$		1.4	V
$t_{rr}$	$I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$		75	ns

#### PACKING OPTIONS:

- CPD16-CMR1U-06M-CT: Singulated die in waffle pack; 400 die per tray.
- CPD16-CMR1U-06M-WN: Full wafer, unsawn, 100% tested with reject die inked.
- CPD16-CMR1U-06M-WR: Full wafer, sawn and mounted on plastic ring, 100% tested with reject die inked.

# CPD16-CMR1U-06M

## Typical Electrical Characteristics

