

查询"08F1985"供应商

SWITCHMODE™ Power Rectifiers

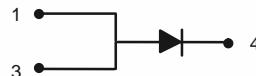
DPAK Surface Mount Package

... designed for use in switching power supplies, inverters and as free wheeling diodes, these state-of-the-art devices have the following features:

- Ultrafast 35 Nanosecond Recovery Time
- Low Forward Voltage Drop
- Low Leakage

Mechanical Characteristics:

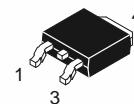
- Case: Epoxy, Molded
- Weight: 0.4 gram (approximately)
- Finish: All External Surfaces Corrosion Resistant and Terminal Leads are Readily Solderable
- Lead and Mounting Surface Temperature for Soldering Purposes: 260°C Max. for 10 Seconds
- Shipped 75 units per plastic tube
- Available in 16 mm Tape and Reel, 2500 units per reel, by adding a "T4" suffix to the part number
- Marking: U320



MURD320

MURD320 is a
Motorola Preferred Device

ULTRAFAST RECTIFIERS
3 AMPERES
200 VOLTS



CASE 369A-13
DPAK

MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	200	Volts
Average Rectified Forward Current ($T_C = 158^\circ\text{C}$, Rated V_R)	$I_{F(AV)}$	3	Amps
Peak Repetitive Forward Current (Rated V_R , Square Wave, 20 kHz, $T_C = 158^\circ\text{C}$)	I_{FRM}	6	Amps
Nonrepetitive Peak Surge Current (Surge applied at rated load conditions, halfwave, 60 Hz)	I_{FSM}	75	Amps
Operating Junction and Storage Temperature	T_J, T_{Stg}	-65 to +175	°C

THERMAL CHARACTERISTICS

Thermal Resistance, Junction to Case Junction to Ambient (1)	$R_{\theta JC}$ $R_{\theta JA}$	6 80	°C/W
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ELECTRICAL CHARACTERISTICS

Maximum Instantaneous Forward Voltage Drop (2) ($i_F = 3$ Amps, $T_J = 25^\circ\text{C}$) ($i_F = 3$ Amps, $T_J = 125^\circ\text{C}$)	V_F	0.95 0.75	Volts
Maximum Instantaneous Reverse Current (2) ($T_J = 25^\circ\text{C}$, Rated dc Voltage) ($T_J = 125^\circ\text{C}$, Rated dc Voltage)	i_R	5 500	μA
Maximum Reverse Recovery Time ($i_F = 1$ Amp, $di/dt = 50$ Amps/μs, $V_R = 30$ V, $T_J = 25^\circ\text{C}$) ($i_F = 0.5$ Amp, $i_R = 1$ Amp, $ I_{REC} = 0.25$ A, $V_R = 30$ V, $T_J = 25^\circ\text{C}$)	t_{rr}	35 25	ns

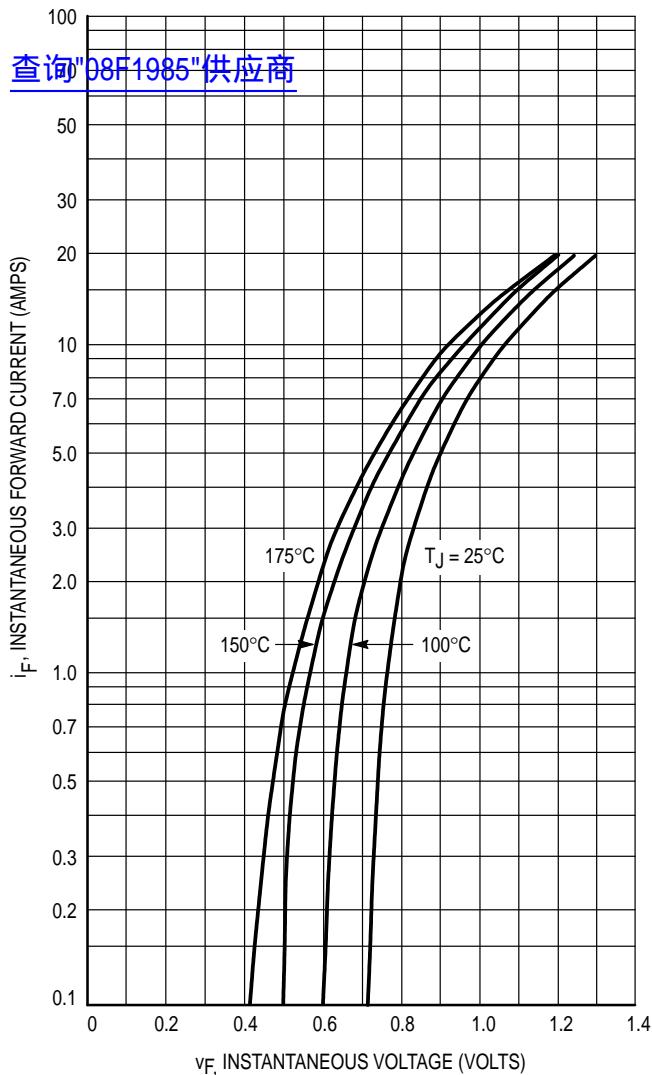
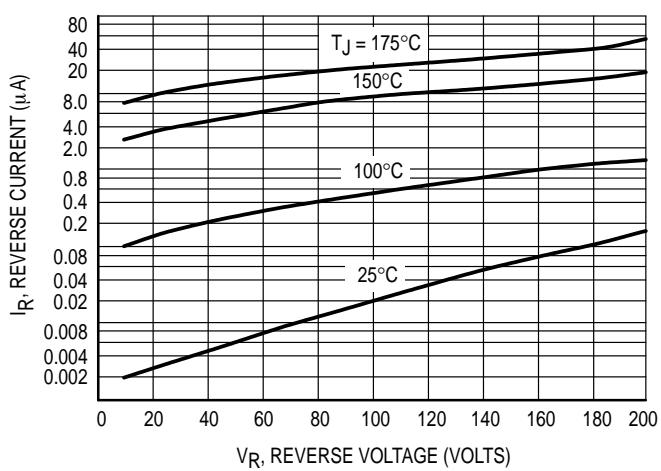
(1) Rating applies when surface mounted on the minimum pad sizes recommended.

(2) Pulse Test: Pulse Width = 300 μs, Duty Cycle ≤ 2.0%.

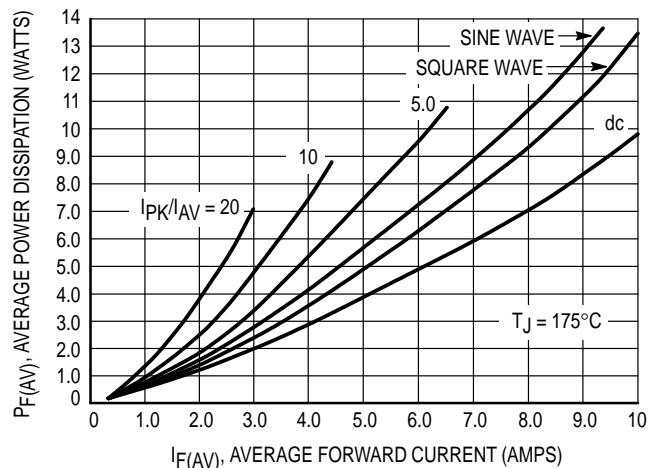
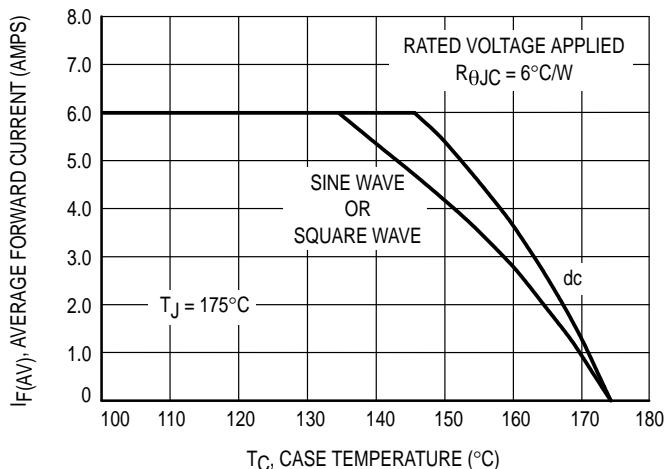
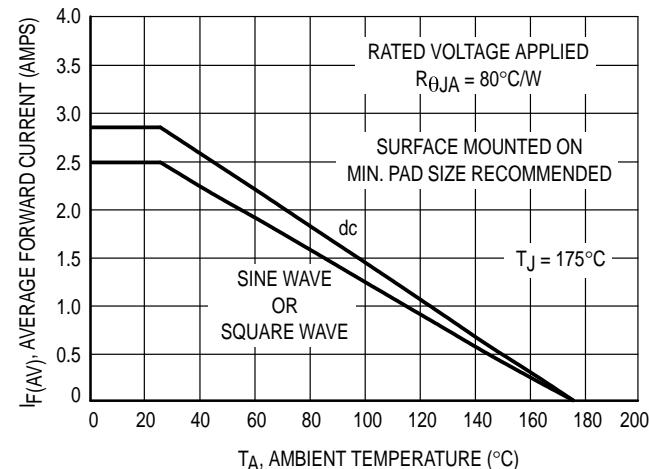
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Preferred devices are Motorola recommended choices for future use and best overall value.




Figure 1. Typical Forward Voltage

Figure 2. Typical Reverse Current*

* The curves shown are typical for the highest voltage device in the voltage grouping. Typical reverse current for lower voltage selections can be estimated from these curves if V_R is sufficiently below rated V_R .


Figure 3. Average Power Dissipation

Figure 4. Current Derating, Case

Figure 5. Current Derating, Ambient

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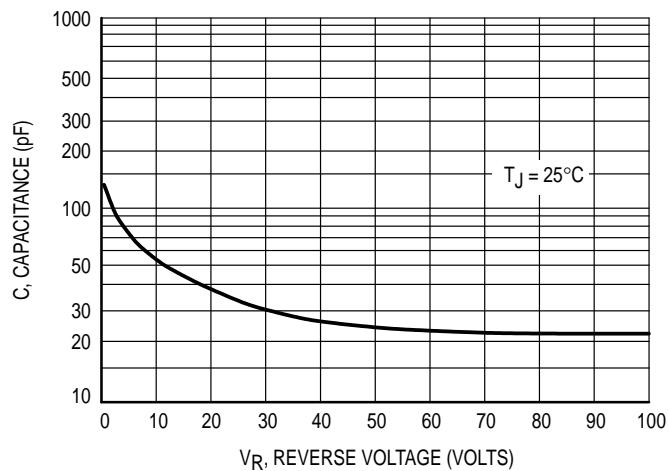
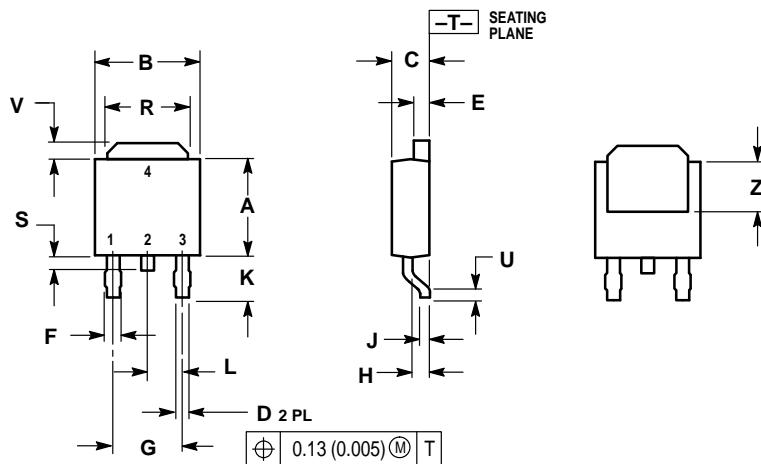


Figure 6. Typical Capacitance

PACKAGE DIMENSIONS

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NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.235	0.250	5.97	6.35
B	0.250	0.265	6.35	6.73
C	0.086	0.094	2.19	2.38
D	0.027	0.035	0.69	0.88
E	0.033	0.040	0.84	1.01
F	0.037	0.047	0.94	1.19
G	0.180	BSC	4.58	BSC
H	0.034	0.040	0.87	1.01
J	0.018	0.023	0.46	0.58
K	0.102	0.114	2.60	2.89
L	0.090	BSC	2.29	BSC
R	0.175	0.215	4.45	5.46
S	0.020	0.050	0.51	1.27
U	0.020	—	0.51	—
V	0.030	0.050	0.77	1.27
Z	0.138	—	3.51	—

CASE 369A-13
ISSUE Y

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