

Ultra-fast Recovery Rectifier

DURD560A

FEATURES

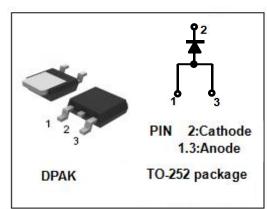
- With TO-252 Package
- · Ultra-fast switching
- · High surge current capability
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

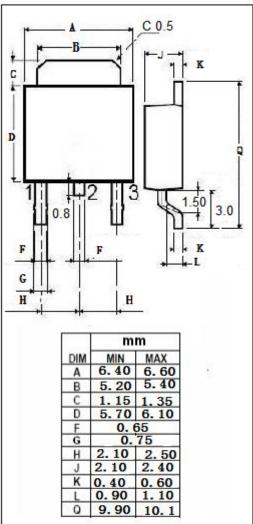
APPLICATIONS

- · Anti-parallel diode for high frequency switching devices
- Uninterruptible Power Supplies (UPS)
- Free wheeling diode in converters and motor control circuits



SYMBOL	PARAMETER	VALUE	UNIT
V _{RRM} V _{RWM} V _R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	600	V
I _{F(AV)}	Average Rectified Forward Current	5	Α
IFSM	Nonrepetitive Peak Surge Current@45℃ (Surge applied at rated load conditions halfwave, single phase, 60Hz)	60	Α
Тл	Junction Temperature	-40~150	$^{\circ}\!\mathbb{C}$
T _{stg}	Storage Temperature Range	-40~150	°C







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THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance,Junction to Case	4.5	°C/W

ELECTRICAL CHARACTERISTICS(Ta=25℃) (Pulse Test: Pulse Width=300 µ s,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V _{F*}	Maximum Instantaneous Forward Voltage	I _F = 5A ;Tj=25℃ I _F = 5A ;Tj=125℃	1.7 1.5	V
I _{R*}	Maximum Instantaneous Reverse Current	V _R = V _{RWM} ;Tj=25°C V _R = V _{RWM} ;Tj=125°C	5 500	μ А
trr	Maximum Reverse Recovery Time	IF =0.5A;di/dt = 60A/µs	35	ns

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