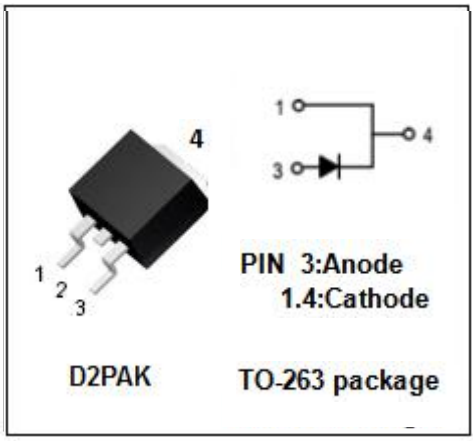
Ultrafast Rectifier 8ETU04S

FEATURES

- Ultrafast Recovery Time
- Low Forward Voltage Drop
- Low Leakage Current
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

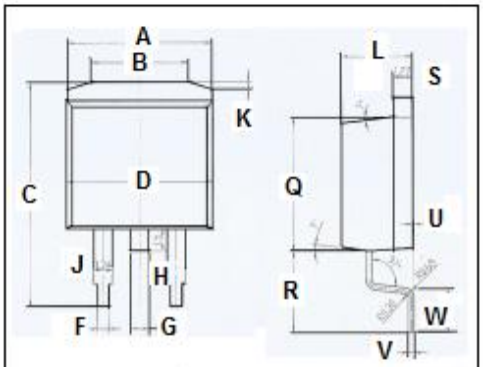


APPLICATIONS

- This power rectifier is specifically designed for use as damper diode in horizontal deflection circuits for high and very high resolution monitors

ABSOLUTE MAXIMUM RATINGS(T_a=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V_{RRM} V_{RWM} V_R	Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	400	V
$I_{F(AV)}$	Average Rectified Forward Current	8	A
I_{FSM}	Nonrepetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	100	A
T_J	Junction Temperature	-65~175	℃
T_{stg}	Storage Temperature Range	-65~175	℃



DIM	mm MIN	MAX
A	10	
B	6.6	6.8
C	15.23	15.25
D	10.15	10.17
F	0.76	0.78
G	1.26	1.28
H	1.4	1.6
J	1.33	1.35
K	0.4	0.6
L	4.6	4.8
Q	8.69	8.71
R	5.28	5.30
S	1.26	1.28
U	0.0	0.2
V	0.37	0.39
W	2.80	2.82

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
$R_{th\ j\text{-}c}$	Thermal Resistance,Junction to Case	2.0	℃/W

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ELECTRICAL CHARACTERISTICS(T_a=25℃) (Pulse Test: Pulse Width=300 μs,Duty Cycle≤2%)

SYMBOL	PARAMETER	CONDITIONS	MAX	UNIT
V_{F*}	Maximum Instantaneous Forward Voltage	I_F= 8A ;Tj=25℃ I_F= 8A ;Tj=150℃	1.3 1	V
I_{R*}	Maximum Instantaneous Reverse Current	V_R= $V_{RWM;}$ V_R= $V_{RWM;}$Tj=150℃	10 500	μA
t_{rr}	Maximum Reverse Recovery Time	IF =1A;di/dt = 50A/μs	60	ns

*:Pulse test ,Pulse width=300us,duty cycle≤2%

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