



ISOLATION SUPERFAST RECOVERY RECTIFIER

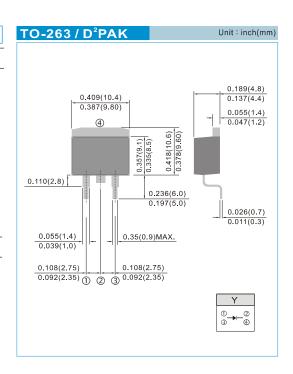
VOLTAGE 400 Volt CURRENT 16 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
 Flame Retardant Epoxy Molding Compound.
- · Exceeds environmental standards of MIL-S-19500/228
- · Low power loss, high efficiency.
- · Low forwrd voltge, high current capability
- · High surge capacity.
- · Super fast recovery times, high voltage.
- · Epitaxial chip construction.
- · Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: TO-263/D2PAK Molded plastic package
- Terminals: Lead solderable per MIL-STD-750, Method 2026
- · Polarity: As marked.
- · Standard packaging: Any
- · Weight: 0.0514 ounces, 1.46 grams.



MAXIMUM RATING AND ELECTRICAL CHARACTERISTICSS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	400	٧
Maximum RMS Voltage	V _{RMS}	280	٧
Maximum DC Blocking Voltage	V _{DC}	400	V
Maximum Average Forward Current at T _c =100°C	I _{F(AV)}	16.0	Α
Peak Forward Surge Current, 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	300	А
Maximum Forward Voltage at 16A	V _F	1.30	٧
Maximum DC Reverse Current at Rated DC Blocking $T_{_J}$ =25°C Voltage $T_{_J}$ =100°C	I _R	1.0 500	μА
Maximum Reverse Recovery Time (Note 2)	t _{rr}	50	ns
Typical Junction Capacitance (Note 1)	CJ	175	pF
Typical Thermal Resistance	R _{eJC}	3.0	°C / W
Operating and Storage Temperature Range	T_J,T_STG	-55 to +150	°C

NOTES:

- 1. Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2. Reverse Recovery Test Conditions: I_F =.5A, I_R =1A, I_r =.25A.
- 3. Both Bonding and Chip structure are available.





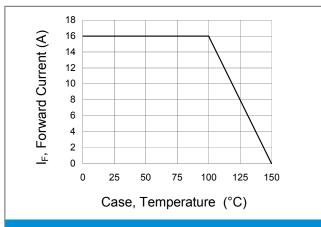


Fig.1 Forward Current Derating Curve

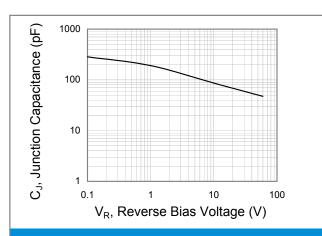


Fig.2 Typical Junction Capacitance

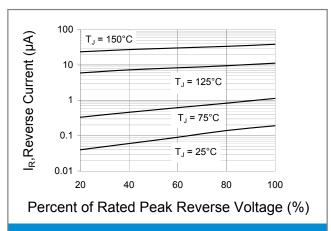


Fig.3 Typical Reverse Characteristics

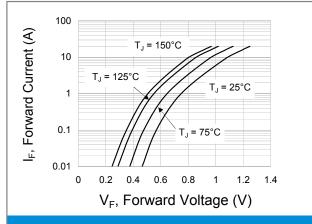
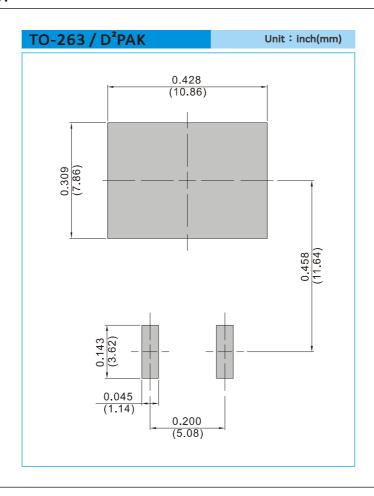


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 0.8K per 13" plastic Reel





Part No_packing code_Version

ER1604DY_R2_00001 ER1604DY_R2_10001

For example:



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	Х			
Tape and Reel (Right Oriented) (TRR)	s	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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