

U60D05C - U60D60C

60A GLASS PASSIVATED DUAL SUPERFAST RECTIFIER

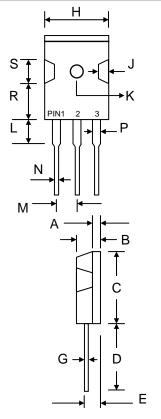


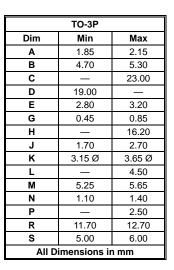
Features

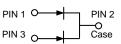
- Glass Passivated Die Construction
- Superfast 35nS and 50nS Recovery Time
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

Mechanical Data

- Case: TO-3P, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: See Diagram
- Weight: 5.6 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 1.2 N.m Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4





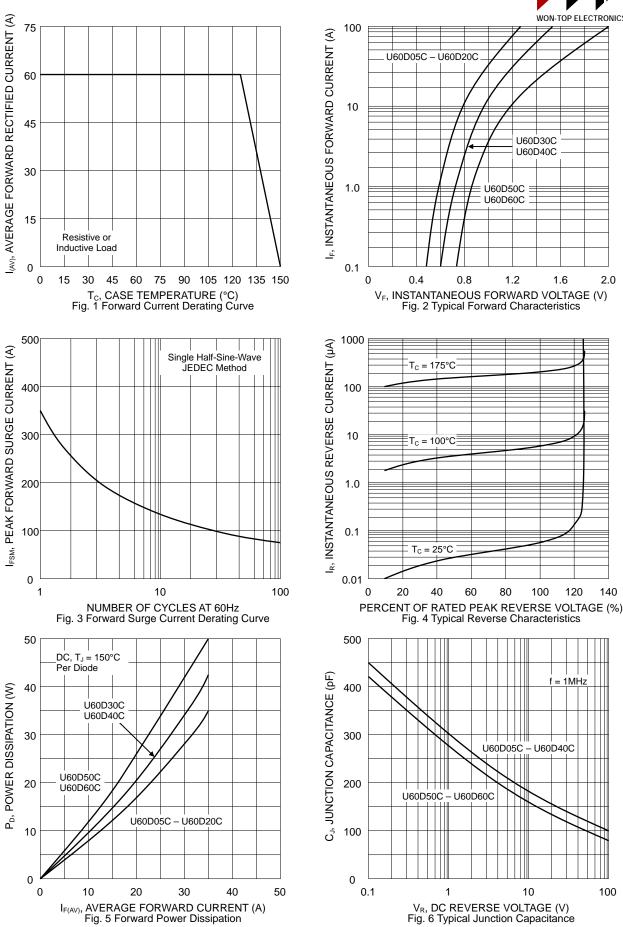


Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	U60D 05C	U60D 10C	U60D 15C	U60D 20C	U60D 30C	U60D 40C	U60D 50D	U60D 60C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	150	200	300	400	500	600	V
RMS Reverse Voltage		VR(RMS)	35	70	105	140	210	280	350	420	V
Average Rectified Output CurrentTot $@T_c = 125^{\circ}C$ Pe	lo	60 30						А			
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		IFSM	350						A		
Forward Voltage per diode	⊉I _F = 30A	Vfm		1	.0		1	.3	1	.7	V
	$T_{\rm C} = 25^{\circ}{\rm C}$ $= 100^{\circ}{\rm C}$	Irm	10 500				μA				
Reverse Recovery Time (Note 1)		trr	35 50						nS		
Typical Junction Capacitance (Note 2)		Сл	220 200					pF			
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode		R JA R JC	40 1.0						°C/W		
Operating and Storage Temperature Range		TJ, Tsтg	-55 to +150						°C		

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{RR} = 0.25A$. 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

<u>U60D05C – U60D60C</u>

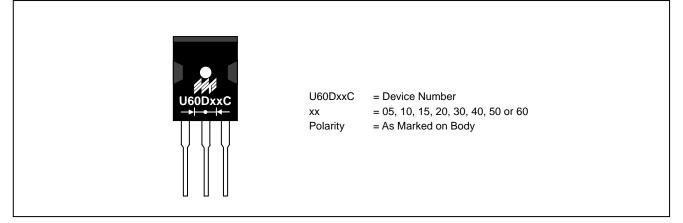


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MARKING INFORMATION



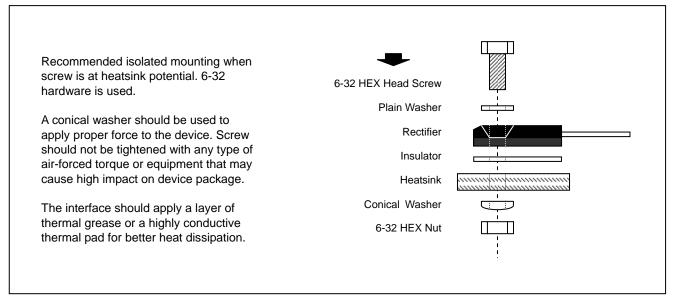
PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
505 x 46 x 6.5	30	520 x 145 x 95	1,200	540 x 306 x 115	2,400	18.0

Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT





Product No.	Package Type	Shipping Quantity
U60D05C	TO-3P	30 Units/Tube
U60D10C	TO-3P	30 Units/Tube
U60D15C	TO-3P	30 Units/Tube
U60D20C	TO-3P	30 Units/Tube
U60D30C	TO-3P	30 Units/Tube
U60D40C	TO-3P	30 Units/Tube
U60D50C	TO-3P	30 Units/Tube
U60D60C	TO-3P	30 Units/Tube

ORDERING INFORMATION

1. Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, U60D05C-LF.

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