

Features

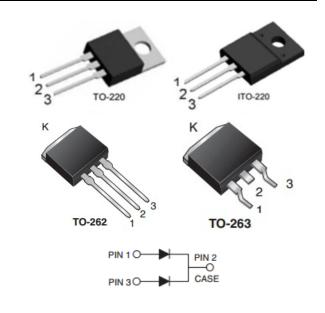
- Ultra Low Forward Voltage Drop
- Excellent High Temperature Stability
- Patented Super Barrier Rectifier Technology
- Soft, Fast Switching Capability

Mechanical Data

- Case: TO-220AB, ITO-220AB, TO-262AB, TO-263AB
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Terminals: Matte Tin Finish annealed over Copper leadframe. Solderable per MIL-STD-202, Method 208

Ordering Information

Package	Packing
TO-220AB	50pcs / Tube
ITO-220AB	50pcs / Tube
TO-262AB	50pcs / Tube
TO-263AB	50pcs / Tube
TO-263AB	800pcs / Reel
	TO-220AB ITO-220AB TO-262AB TO-263AB



MAXIMUM RATINGS(TA=25°C unless otherwise noted)

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		VRRM	100	V
Maximum rms voltage		VRMS	70	V
Maximum average forward rectified current	per device per diode	l F(AV)	10 5	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	per diode	Іғѕм	80	Α
Typical thermal resistance per diode	(Note 1)	R⊚лс	4.5	°C/W
Operating junction temperature range		TJ	-55 to + 150	°C
Storage temperature range		Тѕтс	-55 to + 150	°C

Note: 1. Mounted on infinite heatsink.

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ELECTRICAL CHARACTERISTICS(Ta=25°C unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITIONS		MIN.	TYP.	MAX.	UNIT
Breakdown voltage per diode	VBR	I R=0.5mA		100	-	-	V
Instantaneous forward voltage per diode	VF	I F=1A I F=2A I F=5A	TJ=25°C		0.45 0.51 0.68	- - 0.75	V
		I F=1A I F=2A I F=5A	TJ=125°C		0.36 0.46 0.62	1 1 1	V
Reverse current per diode	l R	VR=70V		-	1.8	-	μΑ
		VR=100V	TJ=25°C TJ=125°C	-	- 3	50 -	μA mA

RATING AND CHARACTERISTIC CURVES

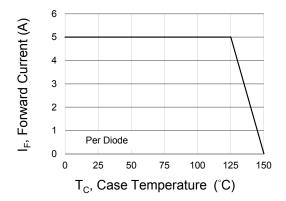


Fig.1 Forward Current Derating Curve

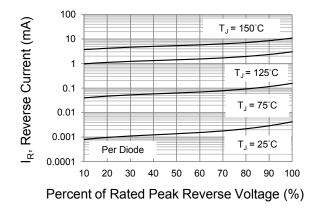


Fig.3 Typical Reverse Characteristics

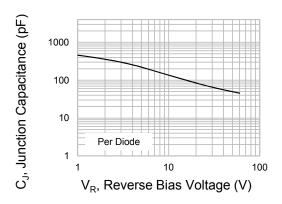


Fig.2 Typical Junction Capacitance

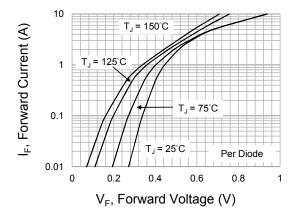
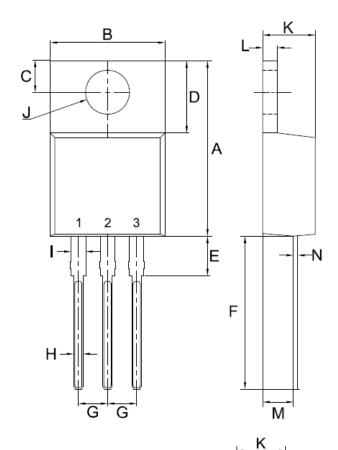


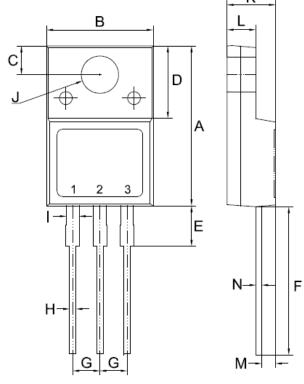
Fig.4 Typical Forward Characteristics



Package Outline Dimensions



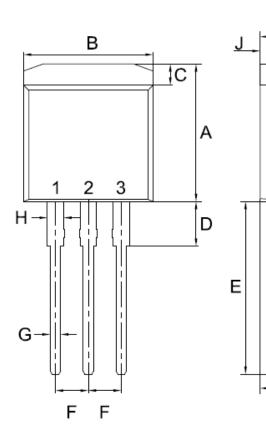
TO-220AB			
Unit:mm			
DIM	MIN	MAX	
A	14. 80	15. 80	
В	9. 57	10. 57	
С	2. 54	2.94	
D	5. 80	6.80	
Е	2. 95	3. 95	
F	12.70	13. 40	
G	2. 34	2.74	
Н	0.51	1. 11	
Ι	0. 97	1. 57	
J	3. 54 ø	4. 14 ø	
K	4. 27	4. 87	
L	1.07	1.47	
M	2. 03	2. 92	
N	0.30	0.64	



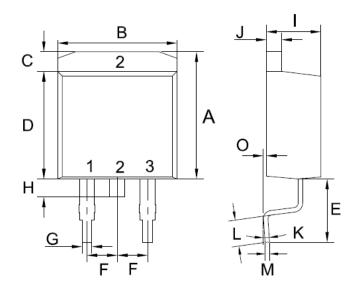
ITO-220AB			
Unit:mm			
DIM	MIN	MAX	
A	14. 50	15. 50	
В	9. 50	10. 50	
С	2. 50	2. 90	
D	6. 30	7. 30	
Е	3. 30	4. 30	
F	13.00	14. 00	
G	2. 35	2. 75	
Н	0.30	0. 90	
Ι	0. 90	1.50	
J	3. 20	3. 80	
K	4. 24	4. 84	
L	2. 52	2. 92	
M	1.09	1.49	
N	0.47	0.64	



Package Outline Dimensions



$T0-262 (I^2 PAK)$			
Unit:mm			
DIM	MIN	MAX	
A	10. 14	11. 14	
В	9. 57	10. 57	
С	1.44	1.84	
D	2.95	3. 95	
Е	12.70	13. 40	
F	2.34	2.74	
G	0.51	1. 11	
Н	0. 97	1. 57	
Ι	4. 27	4.87	
J	1. 07	1. 47	
K	2.03	2.92	
L	0.30	0.46	



TO-263 (D ² PAK)				
Unit:mm				
DIM	MIN	MAX		
A	10. 44	10.84		
В	9.81	10. 21		
С	1.44	1.84		
D	8.80	9. 20		
Е	4.46	4.66		
F	2.44	2.64		
G	0.61	1.01		
Н	0.70	1.30		
Ι	4. 27	4.87		
J	1.07	1. 47		
K	0°	8°		
L	2. 10	2.50		
M	0.30	0.46		
0	0	0. 25		



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