Features

- Low forward voltage and leakage current
- Low inductance package
- High surge current capability

Product Summary

Applications

- Field supply for DC motors
- Line rectifiers for transistorized AC motor controllers
- Non-controllable rectifiers for AC/DC converter

Absolute Maximum Ratings (@ T_C = 25℃ unless otherwise specified)

Parameter	Conditions	Symbol	Values	Unit
Repetitive peak reverse voltage		V_{RRM}		

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Electrical Characteristics (@ T_C = 25℃ unless otherwise specified)

Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Forward voltage	I_F = 75A, Tvj = 25	V_F		1.20	1.40	V
Reverse leakage current	V_R = V_{RRM}, Tvj = 25	I_{RRM}			0.3	mA
	V_R = V_{RRM}, Tvj = 150				5	mA
Threshold voltage	For power loss calculation only Tvj = 150 ,	V_{TO}			0.90	V
Dynamic resistance		r_T			4.2	mΩ

Thermal Characteristics (@ T_C = 25℃ unless otherwise specified)

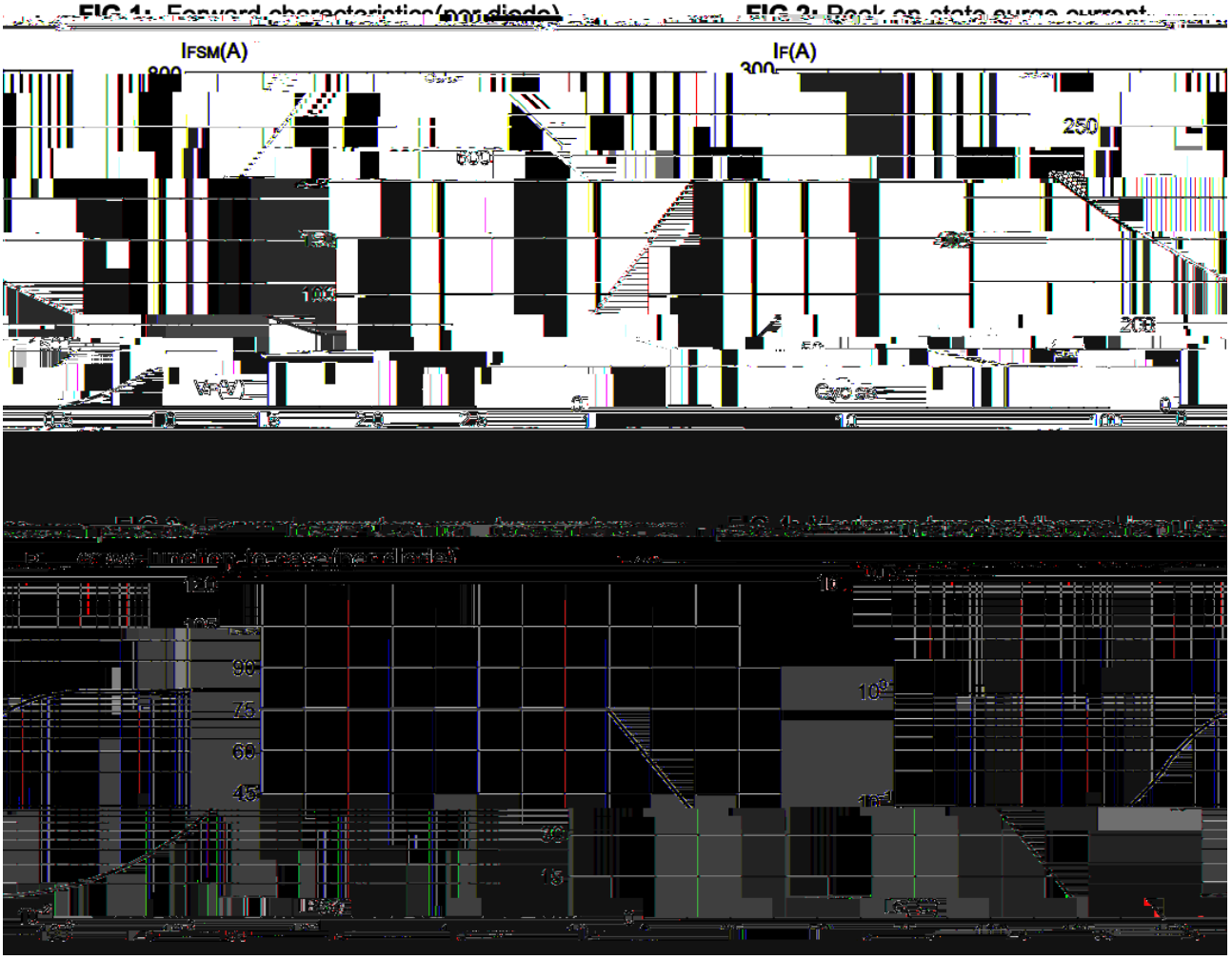
Parameter	Conditions	Symbol	Values			Unit
			Min.	Typ.	Max.	
Thermal impedance (junction to case)	per diode	$R_{th(j-c)}$			1.1	/W
Mounting torque	Base plate to heatsink screw M5	M	4.25		5.75	N·m
	Electrode to terminal screw M5		4.25		5.75	N·m

Ordering Information

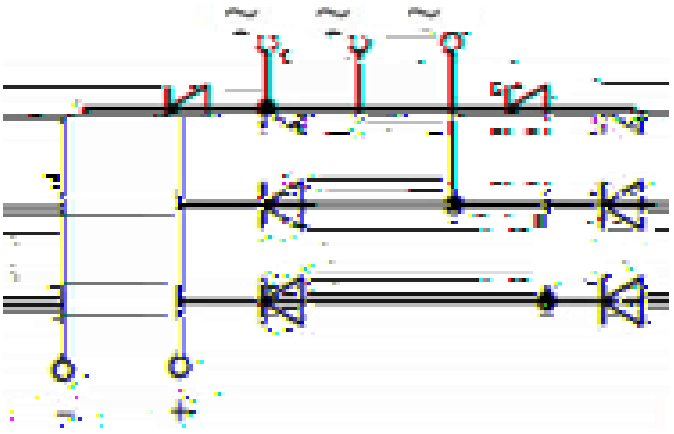
Device	Marking	Package	Weight	Inner Box	Per Carton
JMD75TD16D3	JMD75TD16D3	D3	146g/PCS	10PCS	90PCS

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Typical Electrical & Thermal Characteristics

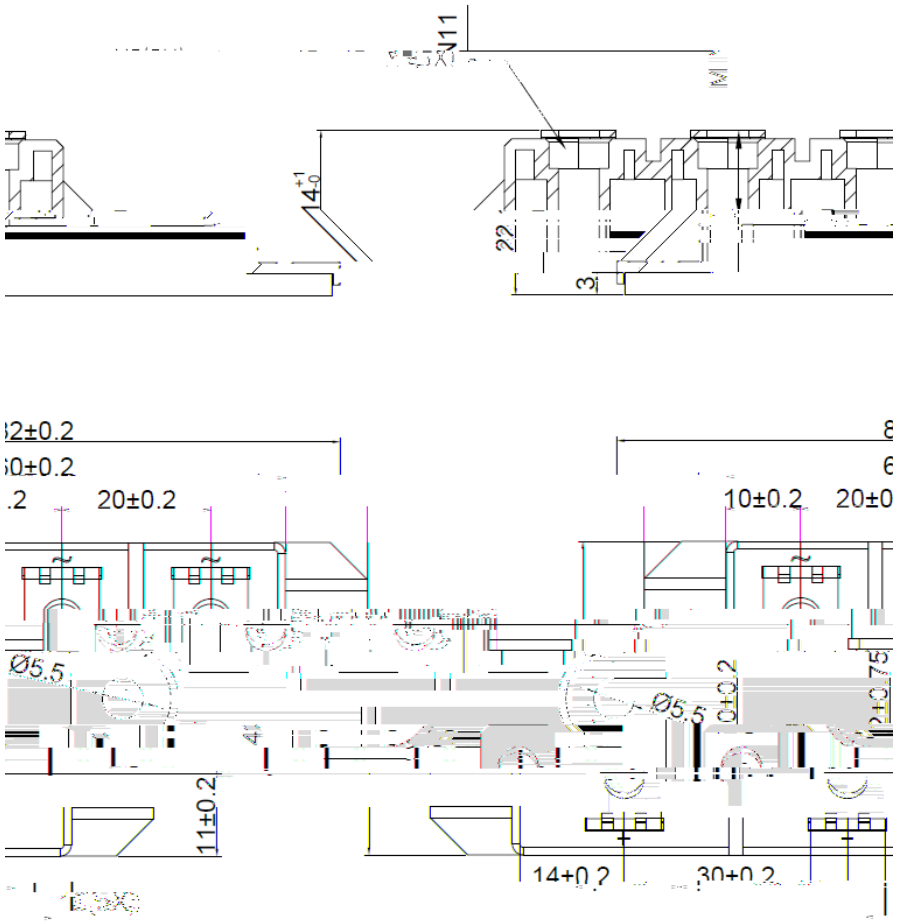


Circuit Diagram



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Package Outlines (mm)



Unit of measurement: mm

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