


Product	D1084
Product Info	5A Low Dropout Linear Regulator
Description	<p>The D1084 is a series of low dropout three-terminal regulators with a dropout of 1.5V at 1A output current. The D1084 series provides current limiting and thermal shutdown. Its circuit includes a trimmed band gap reference to assure output voltage accuracy to be within 2% for 1.5V, 1.8V, 2.5V, 3.3V, 5.0V and adjustable versions. Current limit is trimmed to ensure specified output current and controlled short-circuit current. On-chip thermal shutdown provides protection against any combination of overload and ambient temperature that would create excessive junction temperature.</p> <p>The D1084 has an adjustable version that can provide the output voltage from 1.25V to 12V with only two external resistors.</p> <p>The D1084 series is available in the industry standard TO220-3L, TO263-3L and TO252-3L power packages.</p>
Features	<ul style="list-style-type: none"> ● 1.5V maximum dropout at full load current ● Fast transient response ● Output current limiting ● Built-in thermal shutdown ● Good noise rejection ● 3-Terminal Adjustable or Fixed 1.5V, 1.8V, 2.5V, 3.3V, 5.0V
Applications	<ul style="list-style-type: none"> ● PC Motherboard ● LCD Monitor ● Graphic Card ● DVD-video player ● NIC/Switch ● Telecom Equipment ● ADSL Modem ● Printer and other Peripheral Equipment
Typical Application	
$V_{in(max)}$	12 V
YOUT	ADJ / 1.5 / 1.8 / 2.5 / 3.3 / 5 V
$I_{out(max)}$	5 A
I_{cc}	5 mA
Dropout Voltage	1.5 V
Ripple Rejection	60 dB

Package	TO-220-3L & TO-263-3L & TO-252-3L
Datasheet Download	 Click here to download datasheet
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