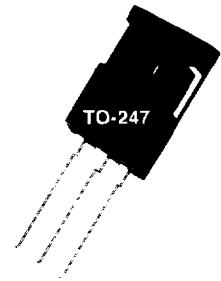


# APT IGBT PRODUCTS

$V_{CES}$ Volts	$V_{CE(ON)}$ Volts	$I_{C1}(25^{\circ}C)$ Amps	$I_{C2}(90^{\circ}C)$ Amps	$t_i(IND@125^{\circ}C)$ nsec	$P_D$ Watts	APT Part No.	New Product Comments
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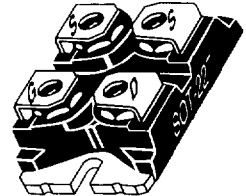
<b>LOW CONDUCTION LOSS IGBT PRODUCT FAMILY</b>							
1000	2.8	65	35	1500	260	APT65GL100BN	
	3.0	45	25	1500	200	APT45GL100BN	
	3.0	30	17	1500	147	APT30GL100BN	
600	2.3	75	40	1000	260	APT75GL60BN	
	2.5	50	30	1000	200	APT50GL60BN	
	2.5	35	20	1000	147	APT35GL60BN	
<b>FAST SWITCHING IGBT PRODUCT FAMILY</b>							
1000	3.7	50	35	800	260	APT50GF100BN	
	4.0	40	25	800	200	APT40GF100BN	
	4.0	25	17	800	147	APT25GF100BN	
600	3.0	55	40	500	260	APT55GF60BN	
	3.0	45	30	500	200	APT45GF60BN	
	3.0	30	20	600	147	APT30GF60BN	



\* TO-247 [B]

<b>LOW CONDUCTION LOSS IGBT PRODUCT FAMILY</b>							
1000	3.0	110	50	1500	415	APT110GL100JN	
600	2.5	130	65	1000	415	APT130GL60JN	
<b>FAST SWITCHING IGBT PRODUCT FAMILY</b>							
1000	4.0	90	50	450	415	APT90GF100JN	
600	3.2	110	65	400	415	APT110GF60JN	

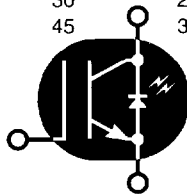
UL RECOGNIZED PCKG



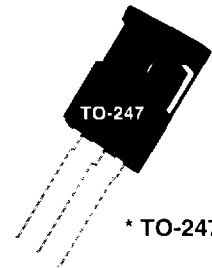
\* ISOTOP® [J]  
(ISOLATED BASE)

## APT IGBT/FRED "COMBI" PRODUCTS

$V_{CES}$ Volts	$V_{CE(ON)}$ Volts	$I_{C1}(25^{\circ}C)$ Amps	$I_{C2}(90^{\circ}C)$ Amps	$t_i(@125^{\circ}C)$ nsec	$P_D$ Watts	APT Part No.	New Product Comments
600	3.0	30	20	600	147	APT30GF60BNU1	<i>IGBT/DIODE</i>
600	3.0	45	30	500	200	APT45GF60BNU1	<i>IGBT/DIODE</i>



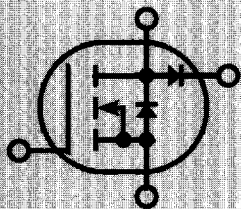
IGBT/FRED "COMBI" CONFIGURATION  
SCHEMATIC DIAGRAM



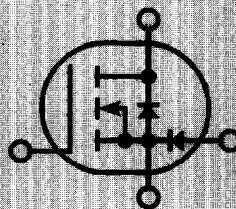
\* TO-247 [B]

## APT MOSFET/FRED "COMBI" PRODUCTS

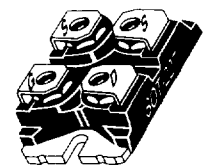
$V_{DSS}$ Volts	$R_{DS(ON)}$ Ohms	$I_D(Cont.)$ Amps	$P_D$ Watts	$C_{ISS}(pF)$ (Typ)	$Q_g(nC)$ (Typ)	APT Part No.	New Product Comments
<b>POWER FACTOR CORRECTION "BOOST" CONFIGURATION</b>							
500	0.120	43	520	5350	228	APT5012JNU2	<i>FET/DIODE</i>
<b>MOTOR DRIVE "BUCK" CONFIGURATION</b>							
1000	0.120	43	520	5350	228	APT5012JNU3	<i>FET/DIODE</i>



BOOST CONFIGURATION



BUCK CONFIGURATION



\* ISOTOP® [J]  
(ISOLATED BASE)

\* not to scale

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