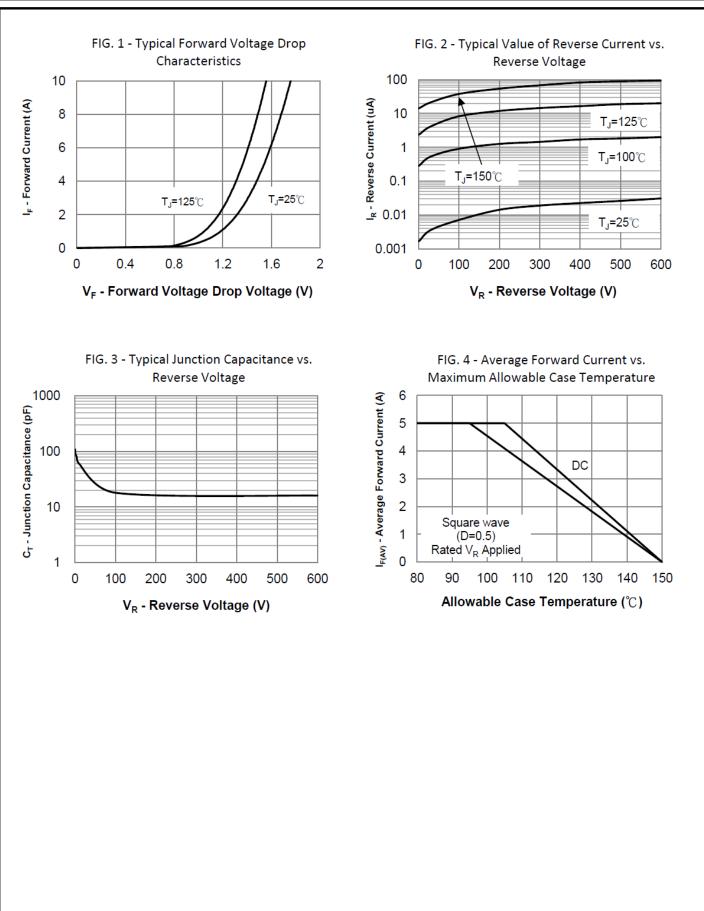


HYD5A06FT

FAST RECOVERY EPITAXIAL DIODE		600V / 5A V _F =1.8V @ I _F =5A, t _{rr} =20ns					
 PRODUCT FEATURES Ultrafast Recovery Time Soft Recovery Characteristics Low Recovery Loss Low Forward Voltage High Surge Current Capability Low Leakage Current APPLICATIONS Converter, PFC Freewheeling, Snubber UPS, Plating Power Supply Inversion Welder MECHANICAL DATA Case : ITO-220AC Molded Plastic Epoxy : UL94V-0 rate flame retadant Polarity : As Marked 		.04 MAX (1.0) .059(1.5) .043(1.1) .031(0.80) .020(0.50) .105(2.67) .095(2.41)	ITO-220, .138(.122(.118(9.8) .102(AC 3.5) 3.1) 3.0) 2.6) - 5.8) 4.8) 4.8) -		.189(4 .173(4 .118(.102(.102(.098(.098(.28(0.70 .20(0.50	4.4) 3.0) 2.6) 2.5) 2.5)
ABSOLUTE MAXIMUM RATINGS (TC	0.14.7410	SYMBOL	VALUES UNIT				
			Marking	D5A06FT			
Maximum Repetitive Reverse Voltage			VRM	600		V	
Average Forward Current	T _C =95°C		IF(AV)	5		A	
Non-Repetitive Surge Forward Current	t_P =10ms, 50Hz, Half Sine Wave			80-380 -		A	
Power Dissipation			Pd Tj, Tstg	34.7 -55 to + 150			W
Operating Junction and Storage Temperatures			Rejc	-55 10 + 150		°C	
Thermal Resistance Junction-to-Case			Rejc				°C/w
Module-to-Sink				2.1		Nt.m	
Weight		RISTICS /T =25°C	nless otherwi	so spor			g
PARAMETER	-	ST CONDITIONS	SYMBOL	Min.	Typ.	Max.	UNIT
Reverse Leakage Current		VR=600V VR=600V, TJ=125°C		-	- 190	25	μΑ
	The second second second			-	-	500	μA
ForwardVoltage	IF=5A IF=5A, TJ=125°C		VF		1.5 -	1.8 1.6	V
Reverse RecoveryTime	I⊧=1A, V _R =30V, diF/dt=-200A/µs		trr		20	25	ns
Reverse RecoveryTime	∨ _R =300∨, I _F =5A		trr		45	-	ns
Max. Reverse Recovery Current	di _F /dt=-200A/µs, TJ=25°C		IRRM	9 - 9	3.6	(* 7)	A
Reverse RecoveryTime	V _R =300∨, I _F =5A		trr		78	æ7.	ns
200		DA/µs, TJ=125°C	RRM		2.72	151	A
Max. Reverse Recovery Current	ai _F /dt=-20	JA/μS, TJ=125°C	IRRM		5.8 REV. 6	- , 30-De	A ec-2014

RATING AND CHARACTERTIC CURVES HYD5A06FT





The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

REV. 6, 30-Dec-2014