

FAST RECOVERY EPITAXIAL DIODE

1200V / 60AV_F=2.5V@I_F=60A, trr=65ns

TO-247AC Modified

PRODUCT FEATURES

- Ultrafast Recovery Time
- Soft Recovery Characteristics
- Low Recovery Loss
- Low Forward Voltage
- High Surge Current Capability
- Low Leakage Current

APPLICATIONS

- Freewheeling, Snubber, Clamp
- Inversion Welder
- Plating Power Supply
- Ultrasonic Cleaner and Welder

MECHANICAL DATA

Case : TO-247AC Modified Molded Plastic
 Epoxy : UL94V-0 rate flame retadant

Polarity: As Marked

.203(5.15) .191(4.85) .287(7.3) .628(15.95) .280(7.1) .241(6.13) .612(15.55) .083(2.1) .142(3.6) .075(1.9) .988(25.1) .976(24.8) .811(20.6) .799(20.3) 181(4.6) .102(2.6) 1.626(41.3) .126(3.2) .110(2.8) 055(1.4) .039(1.0).435(11.05) .423(10.75)

Dimensions in inches and (millimeter)

ABSOLUTE MAXIMUM RATINGS (T_c=25°C unless otherwise specified)

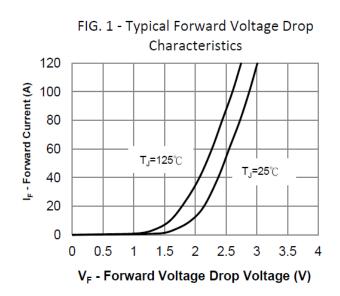
PARAMETER Maximum Repetitive Reverse Voltage		SYMBOL	VALUES	UNIT	
		Marking	D60A12EP	UNII	
		VRM	1200	V	
Average Forward Current	T _C =110°C	IF(AV)	60	Α	
RMS Forward Current	T _C =110°C	IF(RMS)	82	Α	
Non-Repetitive Surge Forward Current	t _P =10ms, 50Hz, Half Sine Wave	I FSM	500	Α	
Power Dissipation		PD	312	W	
Operating Junction and Storage Temperatures		Т _J , Тsтg	-55 to + 150	°C	
Thermal Resistance	Junction-to-Case	Rejc	0.4	°C/w	
Module-to-Sink			1.1	Nt.m	
Weight			6.0	g	

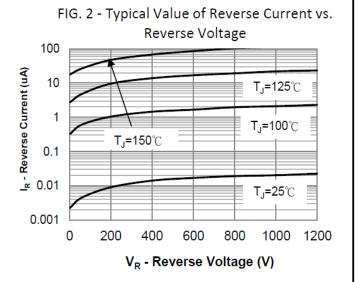
ELECTRICAL AND DYNAMIC RECOVERY CHARACTERISTICS (T_J=25°C, unless otherwise specified)

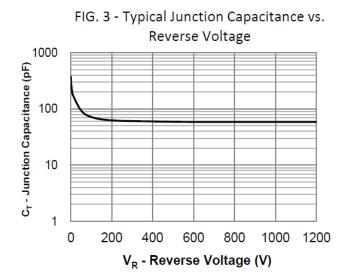
PARAMETER	TEST CONDITIONS	SYMBOL	Min.	Тур.	Max.	UNIT
Reverse Leakage Current	VR=1200V	I _{RM}	1701		500	μA
	VR=1200V, TJ=125°C		-	-	5	mA
Forward\/oltage	IF=60A	VF	220	2.5	3.2	V
	IF=60V, TJ=125°C		#27E	-	2.9	V
Reverse RecoveryTime	I _F =1A, V _R =30V, diF/dt=-200A/μs	trr	14 5	65	-	ns
Reverse RecoveryTime	V _R =600V, I _F =60A di _F /dt=-200A/μs, TJ=25°C	trr	æti	138	-	ns
Max. Reverse Recovery Current		IRRM	196	6.5	_	Α
Reverse RecoveryTime	V_R =600 V , I_F =60A di _F /dt=-200A/ μ s, TJ=125°C	trr	196	420	_	ns
Max. Reverse Recovery Current		IRRM	(=)	12.8	-	Α
	e.	12	70	DE) (0		0044

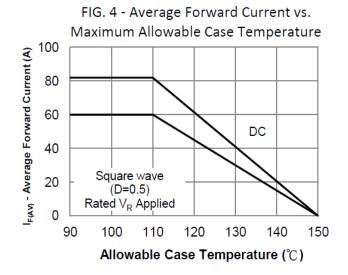
REV. 6, 30-Dec-2014











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