

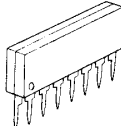
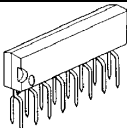



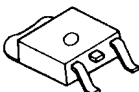


External figure, flame material, lead pitch, lead type of each package are shown in the following chart.

< Lead Insertion Type >








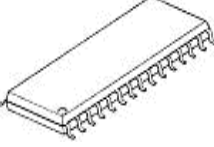

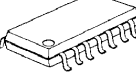
Name		External outline	IC Package Description			
Symbol	Full name		Frame	Pitch	Lead type	Solder
TO-92	Transistor Outline Package		Copper Alloy	1.27mm	Single	Plating
TO-220F	Transistor Outline Package		Copper Alloy	2.54mm		
SIP	Single In-line Package		Copper Alloy	2.54mm		
ZIP	Zig-zag In-line Package		42 Alloy	1.5mm	Dual	
DIP	Dual In-line Package		Copper Alloy	2.54mm		
SDIP	Shrink Dual In-line Package		Copper Alloy	1.778mm		

< Surface Mount Type >

Name		External outline	IC Package Description			
Symbol	Full name		Frame	Pitch	Lead type	Solder
SOT-89	Small Out-line Transistor		Copper Alloy	1.5mm	Single Flat lead	Plating
TO-252	Transistor Out-line Package		Copper Alloy	2.28mm	Single Gull-wing	

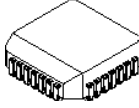
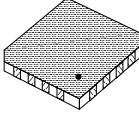
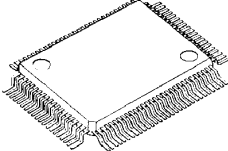
Package Characteristics

< Surface Mount Type >

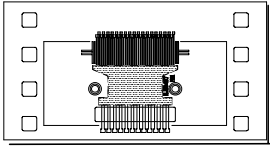
Name		External outline	IC Package Description			
Symbol	Full name		Frame	Pitch	Lead type	Solder
FLP	Flat Lead Package		Copper Alloy	0.5mm 0.65mm 0.95mm	Dual Flat Lead	Plating
SC-88A			Copper Alloy	0.65mm		
MTP (SOT-23)	Small Out-line Transistor		Copper Alloy	0.95mm		
TVSP	Thin Very Small Package		Copper Alloy	0.5mm 0.65mm		
VSP	Very Small Package		Copper Alloy	0.5mm 0.65mm		
SSOP	Shrink Small Outline Package		42 Alloy	0.5mm 0.65mm 0.8mm	Dual Gull-wing	
DMP	Dual In-line Mini Mold Package		42 alloy * 24pin Copper Alloy	0.95mm 2.54mm		
SDMP	Shrink Dual In-line Mini Mold Package		Copper Alloy	1.0mm		
EMP	DMP (JEDEC)		Copper Alloy	1.27mm		
SOP	Small Out-line Package		42Alloy * 28pin Cu Alloy 42 Alloy	1.27mm		

Package Characteristics

< Surface Mount Type >

Name		External Outline	IC Package Description			
Symbol	Full name		Frame	Pitch	Lead type	Solder
PLCC	Plastic Lead Chip Carrier		Copper Alloy	1.27mm	Quad J-Lead	Plating
FFP	Flip-chip Fine Package		Ceramic Board	0.5mm	Quad Ceramic Board	No Solder (Metal PAD)
QFP	Quad Flat Package		Copper Alloy	0.5mm 0.65mm 0.8mm 1.0mm	Quad Gull-wing	Plating

< Tape Carrier Package >

Name		External outline	IC Package Description			
Symbol	Full name		Frame	Pitch	Lead type	Solder
TCP	Tape Carrier Package		-	-	-	Sn Au Sn-Au